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CURRICULUM VITAE

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Education: Ph.D. Oceanography, University of Hawaii at Manoa, Dec. 1987
M.S. Oceanography, University of Hawaii at Manoa, May, 1985
B.Sc (Honors) Biology, St. Francis Xavier University, Nova Scotia,
Canada, May 1978

Scholarships and Awards: College of Charleston, Distinguished Research Award, 2004
College of Charleston, Siegling Endowed Chair in Biology, 2001-present
College of Charleston, Dean's Distinguished Achievement Award, 1996
Harvard University, Post-doctoral Fellowship Award, 1987
Univ. of Hawaii, Outstanding Graduate Research Assistant Award, 1987
Univ. of Hawaii Achievement Rewards for College Scientists (ARCS)
1984, 1985 and 1986
St. Francis Xavier University Scholarship, 1976

Professional Experience: Medical University of South Carolina, Graduate Faculty, 9/03 to present
College of Charleston, SC, Associate Professor, 5/00 to present
College of Charleston, SC, Assistant Professor, 1/95- 4/00
University of Tennessee, Research Assistant Professor, 6/91-12/94
Moss Landing Marine Labs, Research Associate, 1/89-6/91
Harvard University, Post-doctoral Fellow, 12/87-12/88
University of Hawaii, Graduate Research Assistant, 9/80-12/87
Children's Hospital Medical Center, Boston MA, Res. Asst. 12/78-9/80

Research Interests: Marine phytoplankton physiology and ecology
Global biogeochemical cycling of C, N, Fe and S
Biogenic sulfur compounds in the marine environment
Photosynthetic pigments as chemotaxonomic markers
Redox proteins as diagnostic markers for iron limitation

Oceanographic Experience: Research Scientist on various major oceanographic expeditions
Approximately 44 months of cumulative research experience at sea

Professional Societies:

American Society of Limnology and Oceanography, 1983
American Geophysical Union, 1986
The Oceanography Society, Charter Member, 1988
Phycological Society of America, 1996
American Association for the Advancement of Science, 1996
Sigma Xi, 1996

Teaching Experience:

Current Lecturer: Introduction to Oceanography (Biology 342/342L), Physical Oceanography (Biology 610/610L), Marine Botany (Biology 635), Wind & Waves (Honors 390), Seminar on Biogeochemical Cycling in the Oceans (Biology 650), Aquatic Pollution (Biology 503), Phytoplankton Physiology and Ecology (Biology 502), Oceans and Global Climate Change (Biol. 650), College of Charleston, 1995-present.

Lecturer: Environmental Sciences, Tusculum College, TN, 1992-1994

Lecturer: Aquatic Pollution, (Ocean 320), Univ. Hawaii, 1987

Lab Instructor: Phytoplankton Ecology (Ocean 635), Univ. Hawaii, 1985

Lab Instructor: Comparative Anatomy of Vertebrates (Biology 235)
St. Francis Xavier University, Canada. 1976,1977.

Publications:

DiTullio, G.R. and E.A. Laws. 1983. Estimates of phytoplankton N-uptake based on $^{14}\text{CO}_2$ incorporation into protein. **Limnology and Oceanography** 28:177-185.

Betzer, P.R., W.J. Showers, E.A. Laws, C.D. Winn, G.R. DiTullio and P.M. Kroopnick. 1984. Primary production and particle fluxes on a transect of the equator at 153° W in the Pacific Ocean. **Deep Sea Research** 31:1-11.

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Laws E.A., G.R. DiTullio, and D.G. Redalje. 1987. High phytoplankton growth and production rates in the north pacific subtropical gyre. **Limnology and Oceanography**. 32:905-918.

Taguchi, S., G.R. DiTullio and E.A. Laws. 1988. Physiological characteristics and production of mixed layer and chlorophyll maximum phytoplankton populations in the Caribbean Sea and western Atlantic Ocean. **Deep Sea Research** 35:1363-1377.

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Laws, E.A., G.R. DiTullio, K.L. Carder, P.R. Betzer and S. Hawes. 1990. Primary production in the deep blue sea. **Deep Sea Research** 37:715-730.

Young, R.W., K.L. Carder, P.R. Betzer, D.K. Costello, R.A. Duce, G.R. DiTullio, N.W. Tindale, E.A. Laws, M. Uematsu, J.T. Merrill and R.A. Feely. 1991. Atmospheric iron inputs and primary productivity: phytoplankton responses in the North Pacific. **Global Biogeochemical Cycles**. 5:119-135.

DiTullio, G.R. and E.A. Laws. 1991. Impact of an atmospheric-oceanic disturbance on phytoplankton community dynamics in the North Pacific Central Gyre. **Deep Sea Research** 38:1305-1329.

Chavez, F.P., K.R. Buck, K. Coale, J.H. Martin, G.R. DiTullio, N.A. Welschmeyer, A.C. Jacobsen and R.T. Barber. 1991. Growth rates, grazing, sinking and iron limitation of equatorial Pacific phytoplankton. **Limnology and Oceanography** 36:1818-1833.

DiTullio, G.R. and W.O. Smith. 1992. Spatial variability in DMS concentration in the Ross Sea: February, 1992. **Antarctic Journal U.S.** 27:135-137.

Smith, W.O., G.R. DiTullio, S.M. Polk, A. Jacobson, S. Etnier and A.R. Close. 1992. Phytoplankton biomass in the western Ross Sea: Comparison between 1990 and 1992. **Antarctic Journal U.S.** 27:131-132.

DiTullio, G.R. and W.O. Smith Jr. DMS concentrations near the Antarctic Peninsula: November 1992. **Antarctic Journal U.S.** 28:176-178.

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Hutchins, D.A., G.R. DiTullio and K.W. Bruland. 1993 Iron and regenerated production:evidence for biological Fe-recycling in high and low iron marine ecosystems. **Limnology & Oceanography** 38:1242-1255.

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Daly, K.L. and G.R. DiTullio. 1993. Biogenic production of dimethyl sulfide: krill grazing on ice algae. **Antarctic Journal U.S.** 28: 233-237.

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Hutchins, D.A., C.E. Hare, R.S. Weaver, Y. Zhang, G.F. Firme, G.R. DiTullio, M.B. Alm, S.F. Riseman, J.M. Maucher, M.E. Geesey, C.G. Trick, G.J.Smith, E.L. Rue, J. Conn, and K.W. Bruland, 2002. Phytoplankton Fe limitation in the Humboldt Current and Peru Upwelling, **Limnol. Oceanogr.** 47:997-1011.

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metabolism and sediment tracers. In:*Biogeochemistry of the Ross Sea*, **AGU Antarctic Research Series**, G.R. DiTullio and R.B. Dunbar (eds), 78: 313-326, Washington DC.

Hutchins, D.A., C.E. Hare, F. Pustizzi, C.G. Trick, and G.R. DiTullio. 2003. A shipboard natural community continuous culture system to examine effects of low level nutrient enrichments on phytoplankton community composition. **Limnol. Oceanogr. Methods** 1:82-91.

Lee, P.A., J.A. Mikucki, C.M. Foreman, J.C. Priscu, G.R. DiTullio, S.F. Riseman, S.J. deMora, C.F. Wolf, and L. Kester. 2004. Thermodynamic constraints on microbially mediated processes in lakes of the McMurdo Dry Valleys, Antarctica. **Geomicrobiology Journal**, 21:221-237.

Riseman, S.F. and G.R. DiTullio. 2004. Influence of iron on particulate DMSP and DMSO in the Peru upwelling regime. **Can. J. Fish. Aquat. Sci.** 61:721-735.

Lee, P.A., J.C. Priscu, G.R. DiTullio, S.F. Riseman, N. Tursich and S.J. DeMora. 2004. Elevated levels of dimethylated-sulfur compounds in Lake Bonney, a poorly ventilated Antarctic lake. **Limnol. Oceanogr.** 49:1044-1055.

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Saito, M.A., J.W. Moffett and G.R. DiTullio. 2004. Depletion of cobalt as a micronutrient in the Eastern Equatorial Pacific. **Global Biogeochem. Cycles** 18:GB4030.

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Hare, C.E., G.R. DiTullio, C.G. Trick, S.W. Wilhelm, K.W. Bruland, E.L. Rue and D.A. Hutchins. 2005. Phytoplankton community structure changes following a simulated upwelled iron inputs in the Peru upwelling

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**Manuscripts
In-Press:**

Miller, L. and G.R. DiTullio. Biogenic gases in polynyas. In: *Polynyas: Windows into Polar Oceans*, D. Barber and W.O. Smith Jr. (eds), Elsevier Oceanography Series, Amsterdam, The Netherlands (in-press).

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Smith, W.O. Jr., S. Tozzi, G.R. DiTullio, M. Dinniman, O. Mangoni, M. Modigh and V. Saggiomo. Phytoplankton photosynthetic pigments in the Ross Sea: patterns and relationships among functional groups. **J. Mar. Syst.** (submitted).

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