

CURRICULUM VITAE

WILLIAM J. JENKINS

Senior Scientist
Department of Marine Chemistry and Geochemistry
Woods Hole Oceanographic Institution
Woods Hole, Massachusetts 02543

Tel: (508) 289-2554
Fax: (508) 457-2193
E-mail: wjenkins@whoi.edu

EDUCATION:

B.Sc., Physics, McMaster University, Hamilton, Canada, 1970.
Ph.D., Physics, McMaster University, Hamilton, Canada, May, 1974.

Thesis Title: *Helium Isotope and Rare Gas Oceanology*

PROFESSIONAL EXPERIENCE:

Assistant Scientist, Woods Hole Oceanographic Institution, 1974-1978.
Associate Scientist, Woods Hole Oceanographic Institution, 1978-1984.
Senior Scientist, Woods Hole Oceanographic Institution, 1984-July, 1998.
Senior Scientist (on leave), Woods Hole Oceanographic Institution, July, 1998-2002.
Professor, School of Ocean and Earth Sciences, Southampton Oceanography Centre, University of Southampton, UK, July 1998-2002
Chair of Graduate School, Southampton Oceanography Centre, University of Southampton, U.K., August, 1999 - 2002.
Senior Scientist, Woods Hole Oceanographic Institution, April 2002 – present.
Director, National Ocean Sciences Accelerator Mass Spectrometry Facility (NOSAMS), WHOI, Sept. 2005-present.

RESEARCH INTERESTS:

Tracers as applied to the study of oceanic physical, chemical, biological, and geological processes. Air-sea and ice-water exchange of gases. Ocean biological productivity and its controls. Radiogenic and primordial noble gas isotopes in the sea, atmosphere, lakes, ground waters, sediments and rocks. Material transport in limnologic and hydrologic systems. Climatic changes in the ocean and its effects on biogeochemical systems. Radiocarbon and the global carbon cycle in the last 60,000 years.

PROFESSIONAL AFFILIATIONS/ACTIVITIES:

Fellow, American Geophysical Union.
Fellow, Geochemical Society and the European Association of Geochemistry
Editorial Board of the *Journal of Marine Research*.
Executive Editor of *Ocean Sciences* (European Geosciences Union)
Member of GEOTRACES Data Management Committee
Member of the E.G.U. Publications Committee
Member of the European Geosciences Union

AWARDS:

Rosenstiel Award in Oceanographic Science, University of Miami, 1983.
Van Alan Clark Chair for Excellence in Oceanography, Woods Hole Oceanographic Institution, 1987.
Elected Fellow of the American Geophysical Union, 1991.
Henry Bryant Bigelow Medal in Oceanography, 1997.
A.G. Huntsman Medal, 2000.
Elected Fellow of the Geochemical Society and European Association of Geochemistry, 2001.
Harald Ulrik Sverdrup Lecture (Union Lecture designated by OS Section), AGU, Fall, 2002.
Maurice Ewing Medal (AGU), 2010.

PUBLICATIONS:

- Jenkins, W. J., M. A. Beg, W. B. Clarke, P. J. Wangersky and H. Craig (1972). Excess ^3He in the Atlantic. *Earth and Planetary Science Letters*, **16**, 122.
- Clarke, W. B., W. J. Jenkins and Z. Top (1976). Determination of tritium by spectrometric measurement of ^3He . *International Journal of Applied Radioisotopes*, **27**, 515.
- Jenkins, W. J. and W. B. Clarke (1976). The distribution of ^3He in the western Atlantic Ocean. *Deep-Sea Research*, **23**, 481.
- Jenkins, W. J. (1977). Tritium-helium dating in the Sargasso Sea: A measurement of oxygen utilization rates. *Science*, **196**, 291.
- Torgersen, T., Z. Top, W. B. Clarke, W. J. Jenkins and W. S. Broecker (1977). A new method for physical limnology-tritium-helium-3 ages--results for Lakes Erie, Huron and Ontario. *Limnology and Oceanography*, **22**, 181.
- Hammer, P. M., J. M. Hayes, W. J. Jenkins and R. B. Gagosian (1978). Exploratory analyses of trichlorofluoromethane ("Freon-11") in North Atlantic water columns. *Geophysical Research Letters*, **IIA(4)** 5, 645.
- Jenkins, W. J. (1978). Helium isotopes from the solid earth. *Oceanus*, **21**, 13.
- Jenkins, W. J., J. M. Edmond and J. B. Corliss (1978). Excess ^3He and ^4He in Galapagos submarine hydrothermal waters. *Nature*, **272**, 156.
- Rees, C. E., W. J. Jenkins and J. Monster (1978). The sulphur isotopic composition of ocean water sulphate. *Geochimica et Cosmochimica Acta*, **42**, 377.
- Jenkins, W. J. (1979). Mass spectrometric measurement of tritium and ^3He . I.A.E.A. Conference on low level tritium. (Invited Paper), Vienna, 1979.
- Torgersen, T., W. B. Clarke, W. J. Jenkins (1979). The tritium-helium-3 method in hydrology. I.A.E.A. International Symposium on Isotope Hydrology, June, 1978, Neuherberg, F.R.G.
- Jenkins, W. J. (1980). Tritium and ^3He in the Sargasso Sea. *Journal of Marine Research*, **38(3)**, 533-569.
- Jenkins, W. J. and P. B. Rhines (1980). Tritium in the Deep North Atlantic Ocean. *Nature*, **286**, 5776, 877-880.
- Jenkins, W. J., P. A. Rona and J. M. Edmond (1980). Excess ^3He in the deep-water over the Mid-Atlantic Ridge at 26°N : Evidence of hydrothermal activity. *Earth and Planetary Science Letters*, **50**, 39.
- Jenkins, W. J. (1981). Mass spectrometric measurement of tritium and ^3He . In: *Low Level Tritium Measurement*. Proc. Consult. Group Meeting on Low-Level Tritium Measurement. Organized by International Atomic Energy Agency, Vienna, 24-28 September, 1979.
- Kurz, M. D. and W. J. Jenkins (1981). The distribution of helium in oceanic basalt glasses. *Earth and Planetary Science Letters*, **53**, 41-54.
- Jenkins, W. J. (1982). On the climate of a subtropical ocean gyre: Decade timescale variations in water mass renewal in the Sargasso Sea. *Journal of Marine Research*, **40** (Supp.), 265-290.
- Kurz, M. D. and W. J. Jenkins (1982). Helium partitioning in basaltic glass: Reply to comment by R. Poreda. *Earth and Planetary Science Letters*, **59**, 439-440.

- Kurz, M. D., W. J. Jenkins and S. R. Hart (1982). Helium isotopic systematics of oceanic islands: Implications for mantle heterogeneity. *Nature*, **297**, 43-47.
- Kurz, M. D., W. J. Jenkins, J. G. Schilling and S. R. Hart (1982). Helium isotopic variations in the mantle beneath the North Atlantic Ocean. *Earth and Planetary Science Letters*, **58**, 1-14.
- Sayles, F. L., and W. J. Jenkins (1982). Advection of pore fluids through sediments in the equatorial East Pacific. *Science*, **217**, 245-248.
- Torgersen, T. and W. J. Jenkins (1982). Helium isotopes in geothermal systems: Iceland, the Geysers, Raft River and Steamboat Springs. *Geochimica et Cosmochimica Acta*, **46**, 739-748.
- Jenkins, W. J. (1982). Oxygen utilization rates in the North Atlantic subtropical gyre and primary production in oligotrophic systems. *Nature*, **300**, 246-248.
- Livingston, H. D. and W. J. Jenkins (1982). Radioactive tracers in the sea. In: *Oceanography: The Present and Future*, P. G. Brewer, ed., Springer-Verlag, New York, pp. 163-191.
- Mottl, M. J., R. N. Anderson, W. J. Jenkins, and J. R. Lawrence (1983). Chemistry of waters sampled from basaltic basement in Deep Sea Drilling Project Holes 501, 504B, and 505B. *Initial Reports of the Deep Sea Drilling Project*, **LXIX**, 475-484.
- Jenkins, W. J. and J. M. Edmond (1983). Advances in Marine Chemistry, 1979-1982. *Review of Geophysics and Space Physics*, **21**, 1233-1245.
- Jenkins, W. J., D. E. Lott, M. W. Pratt and R. D. Boudreau (1983). Anthropogenic tritium in South Atlantic bottom water. *Nature*, **305**, 45-46.
- Brewer, P. G., W. S. Broecker, W. J. Jenkins, P. B. Rhines, C. G. Rooth, J. M. Swift, and T. Takahashi (1983). A climatic freshening of the deep North Atlantic (north of 50°N) over the past 20 years. *Science*, **222**, 1237-1239.
- Kurz, M. D., W. J. Jenkins, S. Hart and D. Clague (1983). Helium isotopic variations in volcanic rocks from Loihi Seamount and the islands of Hawaii. *Earth and Planetary Science Letters*, **66**, 388-406.
- Jenkins, W. J. (1984). The use of tracers and water masses to estimate rates of respiration. In: *Heterotrophic Activity in the Sea*, J. E. Hobbie and P. Williams, eds., Plenum Press, New York, pp. 391-403.
- Lott, D. E. and W. J. Jenkins (1984). An automated cryogenic charcoal trap system for helium isotope mass spectrometry. *Review of Scientific Instruments*, **55(12)**, 1982-1988.
- Rona, P. A., G. Thompson, M.J. Mottl, J. A. Karson, W. J. Jenkins, D. Graham, M. Mallette, K. Von Damm, and J. M. Edmond (1983). Hydrothermal activity at the TAG hydrothermal field, Mid-Atlantic Ridge crest at 26°N. *Journal of Geophysical Research*, **89(B13)**, 11365-11377.
- Jenkins, W. J. and J. C. Goldman (1985). Seasonal oxygen cycling and primary production in the Sargasso Sea. *Journal of Marine Research*, **43**, 465-491.
- Jenkins, W. J., D. E. Lott, M. W. Davis and R. D. Boudreau (1985). W.H.O.I. Helium Isotope Laboratory Data Report No. 2 Tritium and ³He data from the Beta Triangle (AII-107), October, 1979 and October, 1978, March 1980). Woods Hole Oceanographic Institution Technical Report No. WHOI-85-40.
- Jenkins, W. J. (1987). ³H and ³He in the Beta Triangle: Observations of Gyre ventilation and oxygen utilization rates. *Journal of Physical Oceanography*, **17**, 763-783.

- Graham, D., W. J. Jenkins, M. D. Kurz and R. Batiza (1987). Helium isotopic disequilibrium and geochronology of glassy Submarine Basalts. *Nature*, **326**, 384-386.
- Jenkins, W. J. (1987). Transient Tracers: Their Use in Studying Equatorial Circulation and Exchange. In: *Further Progress in Equatorial Oceanography, A Report of the U.S. Toga Workshop on the Dynamics of the Equatorial Oceans*, Honolulu, HI, August 11-15, 1986, E. J. Katz and J. M. Witte, eds., Nova University Press, Florida, pp. 177-187.
- Top, Z., W.B. Clarke, and W.J. Jenkins (1987). Tritium and primordial He-3 in the North Atlantic – a study in the region of the Charlie-Gibbs Fracture Zone. *Deep-Sea Res. A* **34**, 287-298.
- Kurz, M. D., J. J. Gurney, W. J. Jenkins and D. E. Lott (1987). Helium isotopic variability within single diamonds from the Orapa Kimberlite pipe. *Earth and Planetary Science Letters*, **86**, 57-68.
- Jenkins, W. J. (1988). Using Anthropogenic tritium and ^3He to study subtropical gyre ventilation and circulation. *Philosophical Transactions of the Royal Society of London*, **A325**, 43-61.
- Jenkins, W. J. (1988). The Nitrate Flux into the Euphotic Zone. *Nature*, **331**, 521-523.
- Graham, D. W., A. Zindler, M. D. Kurz, W. J. Jenkins, R. Batiza, and H. Staudigel (1988). He, Pb, Sr and Nd isotope constraints on magma genesis and mantle heterogeneity beneath young Pacific seamounts. *Contributions to Mineralogy and Petrology*, **99**, 446-463.
- Musgrave, D. L., J. Z. Chou, and W. J. Jenkins (1988). Application of a model of upper ocean physics for studying seasonal cycles of oxygen. *Journal of Geophysical Research*, **93**, 15,679-15,700.
- Doney, S. C. and W. J. Jenkins (1988). The effect of boundary conditions on tracer estimates of thermocline ventilation rates. *Journal of Marine Research*, **46**, 947-965.
- Spitzer, W. S. and W. J. Jenkins (1989). Rates of vertical mixing, gas exchange, and new production; estimates from seasonal gas cycles in the upper ocean near Bermuda. *Journal of Marine Research*, **47**, 169-196.
- Jenkins, W. J. (1991). Determination of isopycnal diffusivity in the Sargasso Sea. *Journal of Physical Oceanography*, **21**(7), 1058-1061.
- Trull, T.W., M.D. Kurz, and W.J. Jenkins (1991). Diffusion of cosmogenic He-3 in olivine and quartz – implications for surface exposure dating. *Earth and Planetary Science Letters* **103** 241-256.
- Jenkins, W. J. and D. Wallace (1992). Tracer based inferences of new primary production in the sea. In: *Primary Productivity and Biogeochemical Cycles in the Sea* P.G. Falkowski and A.D. Woodhead (ed) Plenum Press (NY), 299-316.
- Doney, S. C., D. M. Glover and W. J. Jenkins (1992). A model function of the global bomb-tritium distribution in precipitation, 1960-1986. *Journal of Geophysical Research*, **97**, 5481-5492.
- Jenkins, W. J. (1992). Tracers in oceanography. *Oceanus*, **35**, 47-56.
- Graham, D. W., S. E. Humphris, W. J. Jenkins and M. D. Kurz (1992). Helium isotope geochemistry of some volcanic rocks from Saint Helena. *Earth and Planetary Science Letters*, **110**, 121-131.
- Graham, D. W., W. J. Jenkins, J-G. Schilling, G. Thompson, M. D. Kurz and S. E. Humphris (1992). Helium isotope geochemistry of mid-ocean ridge basalts from the South Atlantic. *Earth and Planetary Science Letters*, **110**, 133-147.
- Joyce, T. M. and W. J. Jenkins (1993). Spatial variability of subducted water in the North Atlantic. *Journal of Geophysical Research*, **98**, 10,111-10,124.

- Reverdin, G., R. F. Weiss, and W. J. Jenkins (1993). Ventilation of the Atlantic Ocean Equatorial Thermocline. *Journal of Geophysical Research*, **98**(C9), 16,289–16,310.
- Doney, S. C., W. J. Jenkins and H.G. Östlund (1993). A tritium budget for the North Atlantic. *Journal of Geophysical Research*, **98**(C10), 18,069–18,081.
- Doney, S. C., and W. J. Jenkins (1994). Ventilation of the deep western boundary current and abyssal Western North Atlantic: Estimates from tritium and ^3He distributions. *Journal of Geophysical Research*, **24**(3), 638–659.
- Jenkins, W. J. (1995). Tracer based inferences of new and export primary productivity in the oceans. *IUGG, Quadrennial Report*, 1263-1269.
- Jenkins, W.J. and W.M. Smethie (1996). Transient tracers track ocean climate signals. *Oceanus*, **39**, 29-32.
- Jenkins, W.J. (1996). Tritium and ^3He in the WOCE Pacific Program. *International WOCE Newsletter*, **23**, 6-8.
- Jenkins, W.J. (1996). Using transient tracers in a WOCE process study: Tritium- ^3He dating in the subduction experiment. *U.S. WOCE Newsletter*, **8**.
- Pickart, R.S., W.M. Smethie, Jr., J.R.N. Lazier, E.P. Jones and W.J. Jenkins (1996). Eddies of newly formed upper Labrador Sea water. *J. Geophys. Res.*, **101**, 20711-20726.
- Wijffels, S., J. Toole, M. Bryden, W.J. Jenkins, R. Fine and J. Bullister (1996). The water masses and circulation at 10°N in the Pacific. *Deep-Sea Research I*, **43**, 501-544.
- Doney, S. C., W. J. Jenkins and J. L. Bullister (1997). A comparison of ocean tracer dating techniques on a meridional section in the eastern North Atlantic. *Deep-Sea Research I*, **44**(4), 603-626.
- Jenkins, W.J. (1997). Using helium isotopes and noble gases to study the circulation and watermasses of the Japan/East Sea. *CREAMS-97 Symposium Proceedings*, Fukuoka, Japan.
- Kastner, M., Y. Zheng, T. Laier, W.J. Jenkins and T. Ito (1997). Geochemistry of fluids and flow regime in the decollement zone at the Northern Barbados Ridge. *Proc. O.D.P. Sci. Res.* **156**, 311-319.
- Hood, E.M., B.L. Howes, and W.J. Jenkins (1998). Dissolved gas dynamics in perennially ice-covered Lake Fryxell, Antarctica. *Limnology and Oceanography*, **43**, 265-272.
- Jenkins, W. J. (1998). Studying subtropical thermocline ventilation and circulation using tritium and ^3He . *Journal of Geophysical Research* **103**, 15817-15831.
- Robbins, P.E. and W.J. Jenkins (1998). Observations of temporal changes of tritium- ^3He age in the eastern North Atlantic thermocline: evidence for changes in ventilation? *J. Mar. Res.* **56**, 1125-1161.
- Schlosser, P., R. Bayer, G. Bonisch, L.W. Cooper, B. Ekwurzel, W.J. Jenkins, S. Khatiwala, S. Pfirman, and W.M. Smethie (1999). Pathways and mean residence times of dissolved pollutants in the ocean derived from transient tracers and stable isotopes. *The Science of the Total Environment* **237/238**, 15-30.
- Robbins, P.E., J.F Price, W.B. Owens and W.J. Jenkins (2000). On the importance of lateral diffusion for the ventilation of the lower thermocline in the Subtropical North Atlantic. *J. Phys. Oceanogr.* **30**, 67-89.
- Schlosser, P., J.L. Bullister, R.Fine, W.J.Jenkins, R.Key, J.Lupton, W. Roether, and W.M. Smethie Jr. (2001). Transformation and age of water masses. In *Ocean Circulation and Climate: Observing and*

- Modelling the Global Ocean* Siedler, G., J. Church and J. Gould (Ed.) Academic Press (San Diego). 431-454.
- Dunk, R.M., W.J. Jenkins, and R.A. Mills (2002). A reevaluation of the uranium budget for the Holocene. *Chem. Geol.*, **190**, 45-67.
- Jean-Baptiste, P., W.J. Jenkins, J.C. Dutay, E. Fourré, V. Lebourcher, M. Fieux (2004). Temporally integrated estimate of the Indonesian throughflow using tritium. *Geophys. Res. Lett.*, 31(21), L21301, 10.1029/2004GL020854.
- Jenkins, W.J. (2004). Tracers of ocean mixing. Chapter 11 in *Treatise on Geochemistry*. Volume 6, No. 8, Elsevier, pp 223-246.
- Jenkins, W.J. and Doney, S.C. (2003). The subtropical nutrient spiral. *Global Biogeochem. Cycles*, 17(4), 1110, doi10.1029/2003GB002085.
- Lupton, J.E., D.G. Pyle, W.J. Jenkins, R. Greene, and L. Evans (2004). Evidence for an extensive hydrothermal plume in the Tonga-Fiji region of the South Pacific. *Geochimistry, Geophysics, Geosystems*, 5, doi: 10.1029/2003GC000607.
- Srinivasan, A., Z. Top, D.B. Olson, P. Schlosser, J.E. Lupton, and W. J. Jenkins (2004) Mantle helium distribution and deep circulation in the Indian Ocean. *Journal of Geophysical Research*, **109(C6)**, C06012 10.1029/2003JC002028.
- Stark, S., W.J. Jenkins, and S.C. Doney (2004). The deposition and recirculation of tritium in the North Pacific Ocean. *Journal of Geophysical Research* **109 (C6)**, C06009 10.1029/2003JC002150.
- Postlethwaite, C.F., E.J. Rohling, W.J. Jenkins, C.F. Walker (2005). A tracer study of ventilation in the Japan/East Sea. *DSR II*, **52(11-13)**, 1684-1704.
- Stark, S., P.J. Statham, R. Stanley and W.J. Jenkins (2005). Using tree ring cellulose as a tool to estimate past tritium inputs to the ocean. *Earth and Planetary Science Letters*, **237(3-4)**, 341-353.
- Bond, Z.A., Cohen, A.L., Smith, S.R. and Jenkins, W.J. (2005). Growth and composition of high-Mg calcite in the skeleton of a Bermudian gorgonian (*Plexaurella dichotoma*): Potential for paleothermometry. *Geochemistry Geophysics Geosystems*, 6(8): doi:10.1029/2005GC000911.
- Stanley, R.H.R., W.J., Jenkins, and S. Doney (2006) Quantifying seasonal air-sea gas exchange processes using a noble gas time-series: a design experiment. *J. Mar. Res.* **64**, 267-295.
- McGillicuddy, D.J., Jr., L.A. Anderson, N.R. Bates, T. Bibby, K.O. Buesseler, C.A. Carlson, C.S. Davis, C. Ewart, P.G. Falkowski, S.A. Goldthwait, D.A. Hansell, W.J. Jenkins, R. Johnson, V.K. Kosnyrev, J.R. Ledwell, Q.P. Li, D.A. Siegel, and D.K. Steinberg (2007). Eddy/Wind Interactions Stimulate Extraordinary Mid-Ocean Plankton Blooms. *Science*, **316**: 1021-1026, DOI: 10.1126/science.1136256.
- Han, B.X., K.F. Von Reden, M.L. Roberts, R.J. Schneider, J.M. Hayes, and W.J. Jenkins (2007) Electromagnetic field modeling and ion optics calculations for a continuous-flow AMS system, *Nuclear Instruments and Methods in Physics Research B*, **259**, 111-117.
- Roberts, M.L., R.J. Schneider, K.F. von Reden, J.S.C. Wills, B.X. Han, J.M. Hayes, B.E. Rosenheim, and W.J. Jenkins (2007) Progress on a gas-accepting ion source for continuous-flow accelerator mass spectrometry, *Nuclear Instruments and Methods in Physics Research B*, **259**, 83-87.

- Jenkins, W.J., D.J. McGillicuddy, Jr., and D.E.I. Lott (2008) The distributions of, relation between ^3He and nitrate in eddies *Deep-Sea Research II*, **55**,1389-1397.
- Jenkins, W.J. (2008) The Biogeochemical Consequences of Changing Ventilation in the Japan/East Sea, *Marine Chemistry*, **108**,137-147.
- Von Reden, K.F., M.L. Roberts, W.J. Jenkins, B.E. Rosenheim, A.P. McNichol, and R.J. Schneider (2008) Software development for continuous-flow AMS, *Nuclear Instruments and Methods in Physics Research B*, **266**, 2233-2237.
- Stanley, R.H.R., B. Baschek, D.E. Lott, and W.J. Jenkins (2009) A new automated method for measuring noble gases and their isotopic ratios in water samples. *Geochemistry Geophysics Geosystems*, **10(5)**: Q05008, doi:10.1029/2009GC002429.
- Stanley, R.H.R., W.J. Jenkins, D.E. Lott, and S.C. Doney (2009) Noble gas constraints on air-sea gas exchange and bubble fluxes. *Journal of Geophysical Research-Oceans*, **114**(C11020): doi:10.1029/2009JC005396.
- Baschek, B., and W.J. Jenkins (2009) Gas ventilation of the Saguenay Fjord by an energetic tidal front. *Atmosphere-Ocean*, **47**, 308-318.
- Roberts, M.L., Burton, J.R., Elder, K.L., Longworth, B.E., McIntyre, C.P., Von Reden, K.F., Han, B.X., Rosenheim, B.E., Jenkins, W.J., Galutschek, E., McNichol, A.P., 2010. A high-performance ^{14}C accelerator mass spectrometry system. *Radiocarbon* 52, 228-235.
- McIntyre, C.P., Galutschek, E., Roberts, M.L., von Reden, K.F., McNichol, A.P., Jenkins, W.J., 2010. A continuous-flow gas chromatography ^{14}C accelerator mass spectrometry system. *Radiocarbon* 52, 295-300.
- Jenkins, W.J., Elder, K.L., McNichol, A.P., von Reden, K.F., 2010. The passage of the bomb radiocarbon pulse into the Pacific. *Radiocarbon* 52, 1182-1190.
- Burke, A., Robinson, L.F., McNichol, A.P., Jenkins, W.J., Scanlon, K.M., Gerlach, D.S., 2010. Reconnaissance dating: a new, rapid radiocarbon method applied to assess the temporal and spatial distribution of Southern Ocean deep-sea corals. *Deep-Sea Research I* 57, 1510-1520.
- Falkowski, P.G., Algeo, T., Codispoti, L.A., Deutsch, C., Emerson, S., Hales, B., Huey, R.B., Jenkins, W.J., Kump, L.R., Levin, L.A., Lyons, T.W., Nelson, N.B., Schofield, O.S., Summons, R.E., Talley, L.D., Thomas, E., Whitney, F., Pilcher, C.B., 2011. Ocean deoxygenation: past, present, and future. *EOS Transactions AGU* 92, 409-410.
- Glover, D.M., Jenkins, W.J., Doney, S.C., 2011. Modeling methods for marine science. Cambridge University Press, Cambridge, U.K.
- McIntyre, C.P., Roberts, M.L., Burton, J.R., McNichol, A.P., Burke, A., Robinson, L.F., Von Reden, K., Jenkins, W.J., 2011. Rapid radiocarbon (^{14}C) analysis of coral and carbonate samples using a continuous-flow accelerator mass spectrometry (CFAMS) system. *Paleoceanography* 26, doi:10.1029/2011PA002174.
- Stanley, R.H.R., Doney, S.C., Jenkins, W.J., Lott, D.E.I., 2012. Apparent oxygen utilization rates calculated from tritium and helium-3 profiles at the Bermuda Atlantic Time-series Study site. *Biogeosciences* 9, 1969-1983.

- Jenkins, W.J. (2012) Tracers of Ocean Mixing. *In The Oceans and Marine Geochemistry, 2nd Edition*. Edited by H. Elderfield and M. Mottl. Elsevier. (Peer reviewed book chapter)
- Stanley, R.H.R., and W.J. Jenkins (2012) Noble gases in seawater as tracer for physical and biogeochemical ocean processes. *In The Noble Gases as Geochemical Tracers, Ed. P. Burnard. Springer Verlag. In press. (Peer-reviewed book chapter)*.
- Thiagarajan, N., Gerlach, D., Roberts, M.L., Burke, A., McNichol, A.P., Jenkins, W.J., Subhas, A., Thresher, R.E., Adkins, J.F., 2013. Movement of deep-sea coral populations on climatic timescales. *Paleoceanography* 28, doi:10.1002/palo.20023,2013
- Saito, M. A., A. E. Noble, A. Tagliabue, T. J. Goepfert, C. H. Lamborg, and W. J. Jenkins (2013), Slow-spreading submarine ridges in the South Atlantic as a significant oceanic iron source, *Nature Geoscience*, 6(9), 775-779, doi:10.1038/geo1893.
- Mervine, E. M., S. E. Humphris, K. W. W. Sims, P. B. Kelemen, and W. J. Jenkins (2014) Carbonation rates of peridotite in the Samail Ophiolite, Sultanate of Oman, constrained through ¹⁴C dating and stable isotopes. *Geochim. Cosmochim. Acta* 126, p371-397
- Loose, B. and W. J. Jenkins (2014) The five stable noble gases are sensitive unambiguous tracers of glacial melt water. *Geophys. Res. Lett.* 41, doi:10.1002/2013GL058804.
- Jenkins, W. J., W. M. Smethie Jr., E. A. Boyle, and G. A. Cutter (2014) Water mass analysis for the U.S. GEOTRACES (GAO3) North Atlantic sections. *Deep-Sea Research II* (In Press).
- Jenkins, W. J., D. E. Lott III, B. E. Longworth, J. M. Curtice, and K. L. Cahill (2014) The distributions of helium isotopes and tritium along the U.S. GEOTRACES North Atlantic Sections (GEOTRACES GAO3). *Deep-Sea Research II* (In Press).
- Fitzsimmons, J. N., E. A. Boyle, and W. J. Jenkins (2014) Distal transport of dissolved hydrothermal iron in the deep South Pacific Ocean. *Proc. Natl. Acad. Sci.* (In Press).
- Jullion, L., A.C. Naveira Garabato, S. Bacon, M.P. Meredith, P.J. Brown, S. Torres-Valdes, K.G. Speer, P.R. Holland, J. Dong, D. Bakker, M. Hoppema, B. Loose, H.J. Venables, W.J. Jenkins, M.-J. Messias, and E. Fahrbach (2014) The contribution of the Weddell Gyre to the lower limb of the global overturning circulation. *JGR Oceans*, DOI:10.1002/2013JC009725.