

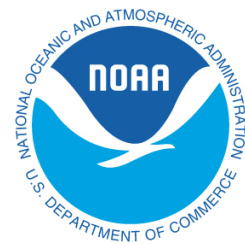
National Oceanic and Atmospheric Administration
US Department of Commerce

The Sargasso Sea: A Selected Bibliography

Compiled by Chris Belter,

NOAA Central Library

June, 2011



1960. The plankton ecology, related chemistry and hydrography of the Sargasso Sea: final report May 1, 1959-August 31, 1960. St. George's West, Bermuda: Bermuda Biological Station.

Aaboe E, Dion EP, Turekian KK. 1981. ⁷Be in Sargasso Sea and Long Island Sound Waters. *Journal of Geophysical Research-Oceans* 86(C4):3255-3257.
<http://dx.doi.org/10.1029/JC086iC04p03255>

Adams LD, Rosel PE. 2006. Population differentiation of the Atlantic spotted dolphin (*Stenella frontalis*) in the western North Atlantic, including the Gulf of Mexico. *Marine Biology* 148(3):671-681. <http://dx.doi.org/10.1007/s00227-005-0094-2>

Alekseev FE, Alekseeva EI, Kukiev EI. 1982. Some morphometric characteristics and state of gonads of rare deep-sea fishes *Opisthoproctus soleatus* Vaillant and *Rhynchohyalus natalensis* (Gilchrist et von Bonde) (Salmoniformes, Opisthoproctidae) from the Sargasso Sea. *Voprosy Ikhtiologii* 22(1):153-157.

Alekseyev F, Alekseyeva Y, Kukuyev Y. 1982. Some morphological features and the state of the ovaries in the rare deepsea fishes *Opisthoproctus soleatus* and *Rhynchohyalus natalensis*, Opisthoproctidae (Salmoniformes) from the Sargasso Sea. *Journal of Ichthyology* 22(1):141-147.

Almogilabin A, Hemleben C, Deuser WG. 1988. Seasonal variation in the flux of euthecosomatous pteropods collected in a deep sediment trap in the Sargasso Sea. *Deep-Sea Research Part a-Oceanographic Research Papers* 35(3):441-464.
[http://dx.doi.org/10.1016/0198-0149\(88\)90020-9](http://dx.doi.org/10.1016/0198-0149(88)90020-9)

Als TD, Hansen MM, Maes GE, Castonguay M, Riemann L, Aarestrup K, Munk P, Sparholt H, Hanel R, Bernatchez L. 2011. All roads lead to home: panmixia of European eel in the Sargasso Sea. *Molecular Ecology* 20(7):1333-1346. <http://dx.doi.org/10.1111/j.1365-294X.2011.05011.x>

Altabet MA. 1989. Particulate new nitrogen fluxes in the Sargasso Sea. *Journal of Geophysical Research-Oceans* 94(C9):12771-12779. <http://dx.doi.org/10.1029/JC094iC09p12771>

Altabet MA. 1989. A time-series study of the vertical structure of nitrogen and particle dynamics in the Sargasso Sea. *Limnology and Oceanography* 34(7):1185-1201.
http://www.aslo.org/lo/toc/vol_34/issue_7/1185.pdf

Altabet MA, Bishop JKB, McCarthy JJ. 1992. Differences in particulate nitrogen concentration and isotopic composition for samples collected by bottles and large-volume pumps in gulf-stream warm-core rings and the Sargasso Sea. *Deep-Sea Research Part a-Oceanographic Research Papers* 39(1A):S405-S417.

Altabet MA, Deuser WG. 1985. Seasonal variations in natural abundance of ¹⁵N in particles sinking to the deep Sargasso Sea. *Nature* 315(6016):218-219.
<http://dx.doi.org/10.1038/315218a0>

Alvarino A. 1988. *Pandea cybeles*, a new medusa from the Sargasso Sea (Coelenterata: Anthomedusae: Pandeidae). *Proceedings of the Biological Society of Washington*

101(1):102-108.

Amerand A, Vettier A, Sebert P, Moisan C. 2007. Migration of the European eels: a sex-specific aerobic metabolism strategy to join the Sargasso Sea? *Comparative Biochemistry and Physiology a-Molecular & Integrative Physiology* 148:S92-S93. <http://dx.doi.org/10.1016/j.cbpa.2007.06.240>

Andersen NG, Nielsen TG, Jakobsen HH, Munk P, Riemann L. 2011. Distribution and production of plankton communities in the subtropical convergence zone of the Sargasso Sea. II. Protozooplankton and copepods. *Marine Ecology-Progress Series* 426:71-86. <http://dx.doi.org/10.3354/meps09047>

Anderson TR, Pondaven P. 2003. Non-redfield carbon and nitrogen cycling in the Sargasso Sea: pelagic imbalances and export flux. *Deep-Sea Research Part I-Oceanographic Research Papers* 50(5):573-591. [http://dx.doi.org/10.1016/s0967-0637\(03\)00034-7](http://dx.doi.org/10.1016/s0967-0637(03)00034-7)

Arenovski AL, Lim EL, Caron DA. 1995. Mixotrophic nanoplankton in oligotrophic surface waters of the Sargasso Sea may employ phagotrophy to obtain major nutrients. *Journal of Plankton Research* 17(4):801-820. <http://dx.doi.org/10.1093/plankt/17.4.801>

Arocha F, Barrios A. 2009. Sex ratios, spawning seasonality, sexual maturity, and fecundity of white marlin (*Tetrapturus albidus*) from the western central Atlantic. *Fisheries Research* 95(1):98-111. <http://dx.doi.org/10.1016/j.fishres.2008.08.010>

Ashjian CJ, Smith SL, Flagg CN, Mariano AJ, Behrens WJ, Lane PVZ. 1994. The influence of a Gulf Stream meander on the distribution of zooplankton biomass in the Slope Water, the Gulf Stream, and the Sargasso Sea, described using a shipboard acoustic Doppler current profiler. *Deep-Sea Research Part I-Oceanographic Research Papers* 41(1):23-50. [http://dx.doi.org/10.1016/0967-0637\(94\)90025-6](http://dx.doi.org/10.1016/0967-0637(94)90025-6)

Avery GB, Cooper WJ, Kieber RJ, Willey JD. 2005. Hydrogen peroxide at the Bermuda Atlantic Time Series Station: Temporal variability of seawater hydrogen peroxide. *Marine Chemistry* 97(3-4):236-244. <http://dx.doi.org/10.1016/j.marchem.2005.03.006>

Avise JC. 2011. Catadromous eels continue to be slippery research subjects. *Molecular Ecology* 20(7):1317-1319. <http://dx.doi.org/10.1111/j.1365-294X.2011.05012.x>

Babiker IS, Mohamed MAA, Komaki K, Ohta K, Kato K. 2004. Temporal variations in the dissolved nutrient stocks in the surface water of the western North Atlantic Ocean. *Journal of Oceanography* 60(3):553-562. <http://dx.doi.org/10.1023/B:JOCE.0000038348.66907.db>

Backus RH, Craddock JE, Haedrich RL, Shores DL. 1969. Mesopelagic fishes and thermal fronts in the western Sargasso Sea. *Marine Biology* 3(2):87-106. <http://dx.doi.org/10.1007/bf00353427>

Backus RH, Flierl GR, Kester DR, Olson DB, Richardson PL, Vastano AC, Wiebe PH, Wormuth JH. 1981. Gulf Stream Cold-Core Rings: Their Physics, Chemistry, and Biology. *Science* 212(4499):1091-1100. <http://dx.doi.org/10.1126/science.212.4499.1091>

Bacon MP, Huh CA, Fler AP, Deuser WG. 1985. Seasonality in the flux of natural radionuclides and plutonium in the deep Sargasso Sea. *Deep-Sea Research Part a-Oceanographic Research Papers* 32(3):273-286. [http://dx.doi.org/10.1016/0198-0149\(85\)90079-2](http://dx.doi.org/10.1016/0198-0149(85)90079-2)

Bailey KE, Toole DA, Blomquist B, Najjar RG, Huebert B, Kieber DJ, Kiene RP, Matrai R, Westby GR, del Valle DA. 2008. Dimethylsulfide production in Sargasso Sea eddies. *Deep-Sea Research Part II-Topical Studies in Oceanography* 55(10-13):1491-1504. <http://dx.doi.org/10.1016/j.dsr2.2008.02.011>

Batchelder HP, Swift E. 1988. Bioluminescent Potential and Variability in Some Sargasso Sea Planktonic Halocyprid Ostracods. *Journal of Crustacean Biology* 8(4):520-523. <http://www.jstor.org/stable/1548687>

Batchelder HP, Swift E, Vankeuren JR. 1990. Pattern of planktonic bioluminescence in the northern Sargasso Sea: Seasonal and vertical distribution. *Marine Biology* 104(1):153-164. <http://dx.doi.org/10.1007/BF01313168>

Batchelder HP, Swift E, Vankeuren JR. 1992. Diel patterns of planktonic bioluminescence in the northern Sargasso Sea. *Marine Biology* 113(2):329-339. <http://dx.doi.org/10.1007/BF00347288>

Bates NR. 2001. Interannual variability of oceanic CO₂ and biogeochemical properties in the Western North Atlantic subtropical gyre. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1507-1528. [http://dx.doi.org/10.1016/S0967-0645\(00\)00151-X](http://dx.doi.org/10.1016/S0967-0645(00)00151-X)

Bates NR, Hansell DA. 1999. A high resolution study of surface layer hydrographic and biogeochemical properties between Chesapeake Bay and Bermuda. *Marine Chemistry* 67(1-2):1-16. [http://dx.doi.org/10.1016/S0304-4203\(99\)00045-6](http://dx.doi.org/10.1016/S0304-4203(99)00045-6)

Bates NR, Merlivat L, Beaumont L, Pequignet AC. 2000. Intercomparison of shipboard and moored CARIOCA buoy seawater fCO₂ measurements in the Sargasso Sea. *Marine Chemistry* 72(2-4):239-255. [http://dx.doi.org/10.1016/S0304-4203\(00\)00084-0](http://dx.doi.org/10.1016/S0304-4203(00)00084-0)

Bates NR, Michaels AF, Knap AH. 1996. Alkalinity changes in the Sargasso Sea: Geochemical evidence of calcification? *Marine Chemistry* 51(4):347-358. [http://dx.doi.org/10.1016/0304-4203\(95\)00068-2](http://dx.doi.org/10.1016/0304-4203(95)00068-2)

Bates NR, Michaels AF, Knap AH. 1996. Seasonal and interannual variability of oceanic carbon dioxide species at the US JGOFS Bermuda Atlantic Time-series Study (BATS) site. *Deep-Sea Research Part II-Topical Studies in Oceanography* 43(2-3):347-+. [http://dx.doi.org/10.1016/0967-0645\(95\)00093-3](http://dx.doi.org/10.1016/0967-0645(95)00093-3)

Bates NR, Samuels L, Merlivat L. 2001. Biogeochemical and physical factors influencing seawater fCO₂, and air-sea CO₂ exchange on the Bermuda coral reef. *Limnology and Oceanography* 46(4):833-846. <http://dx.doi.org/10.4319/lo.2001.46.4.0833>

Bates NR, Takahashi T, Chipman DW, Knap AH. 1998. Variability of pCO₂ on diel to seasonal timescales in the Sargasso Sea near Bermuda. *Journal of Geophysical Research-Oceans*

103(C8):15567-15585. <http://dx.doi.org/10.1029/98JC00247>

Bates SS, Platt T. 1985. Fluorescence induction of chlorophyll a in the Sargasso Sea and on the Grand Banks: correlation with photosynthetic capacity. *Marine Ecology-Progress Series* 27(1-2):29-38. <http://www.int-res.com/articles/meps/27/m027p029.pdf>

Bauer JE, Druffel ERM, Wolgast DM, Griffin S. 2001. Sources and cycling of dissolved and particulate organic radiocarbon in the northwest Atlantic continental margin. *Global Biogeochemical Cycles* 15(3):615-636. <http://dx.doi.org/10.1029/2000GB001314>

Bauer JE, Williams PM, Druffel ERM. 1992. C-14 activity of dissolved organic carbon fractions in the north-central Pacific and Sargasso Sea. *Nature* 357(6380):667-670. <http://dx.doi.org/10.1038/357667a0>

Beckerle JC. 1970. A report on Atlantis II cruise 22, June, July and August 1966. Part I, The dynamics of ocean movements in the Sargasso Sea revealed by sound velocity and temperature measurements. Woods Hole, Mass: Woods Hole Oceanographic Institution.

Beerkircher LR, Lee DW, Hinteregger GF. 2008. Roundscale spearfish *Tetrapturus georgii*: Morphology, distribution, and relative abundance in the western North Atlantic. *Bulletin of Marine Science* 82(1):155-170. <http://www.ingentaconnect.com/content/umrsmas/bullmar/2008/00000082/00000001/art00010>

Beers JR. 1966. Studies on the chemical composition of the major zooplankton groups in the Sargasso Sea off Bermuda. *Limnology and Oceanography* 11(4):520-528. http://www.aslo.org/lo/toc/vol_11/issue_4/0520.pdf

Beers JR, Kelly AC. 1965. Short-term variation of ammonia in the Sargasso Sea off Bermuda. *Deep Sea Research and Oceanographic Abstracts* 12(1):21-25. [http://dx.doi.org/10.1016/0011-7471\(65\)91338-0](http://dx.doi.org/10.1016/0011-7471(65)91338-0)

Belpaire CGJ, Goemans G, Geeraerts C, Quataert P, Parmentier K, Hagel P, De Boer J. 2009. Decreasing eel stocks: survival of the fattest? *Ecology of Freshwater Fish* 18(2):197-214. <http://dx.doi.org/10.1111/j.1600-0633.2008.00337.x>

Beman JM, Chow CE, King AL, Feng YY, Fuhrman JA, Andersson A, Bates NR, Popp BN, Hutchins DA. 2011. Global declines in oceanic nitrification rates as a consequence of ocean acidification. *Proceedings of the National Academy of Sciences of the United States of America* 108(1):208-213. <http://dx.doi.org/10.1073/pnas.1011053108>

Bender ML, Gagner C. 1976. Dissolved copper, nickel, and cadmium in the Sargasso Sea. *Journal of Marine Research* 34(3):327-339.

Bender ML, Klinkhammer GP, Spencer DW. 1977. Manganese in seawater and the marine manganese balance. *Deep-Sea Research* 24(9):799-812. [http://dx.doi.org/10.1016/0146-6291\(77\)90473-8](http://dx.doi.org/10.1016/0146-6291(77)90473-8)

Bermuda Biological Station for Research. 1968. Hydrographic observations in the Sargasso Sea off Bermuda, May 1965 - April 1967. St. George's West, Bermuda Bermuda Biological Station for Research.

Bibby TS, Moore CM. 2011. Silicate: nitrate ratios of upwelled waters control the phytoplankton community sustained by mesoscale eddies in sub-tropical North Atlantic and Pacific. *Biogeosciences* 8(3):657-666. <http://dx.doi.org/10.5194/bg-8-657-2011>

Bidigare RR, Marra J, Dickey TD, Iturriaga R, Baker KS, Smith RC, Pak H. 1990. Evidence for phytoplankton succession and chromatic adaptation in the Sargasso Sea during spring 1985. *Marine Ecology-Progress Series* 60(1-2):113-122. <http://www.int-res.com/articles/meps/60/m060p113.pdf>

Bidigare RR, Morrow JH, Kiefer DA. 1989. Derivative analysis of spectral absorption by photosynthetic pigments in the western Sargasso Sea. *Journal of Marine Research* 47(2):323-341. <http://dx.doi.org/10.1357/002224089785076325>

Bidleman TF, Olney CE. 1974. Chlorinated hydrocarbons in the Sargasso Sea atmosphere and surface water. *Science* 183(4124):516-518. <http://dx.doi.org/10.1126/science.183.4124.516>

Biggs DC, Harbison GR. 1976. The siphonophore *Bathypphysa sibogae* Lens and van Riemsdijk, 1908, in the Sargasso Sea, with notes on its natural history. *Bulletin of Marine Science* 26(1):14-18. <http://www.ingentaconnect.com/content/umrsmas/bullmar/1976/00000026/00000001/art00002>

Bissett WP, Carder KL, Walsh JJ, Dieterle DA. 1999. Carbon cycling in the upper waters of the Sargasso Sea: II. Numerical simulation of apparent and inherent optical properties. *Deep-Sea Research Part I-Oceanographic Research Papers* 46(2):271-317. [http://dx.doi.org/10.1016/S0967-0637\(98\)00063-6](http://dx.doi.org/10.1016/S0967-0637(98)00063-6)

Bissett WP, Walsh JJ, Dieterle DA, Carder KL. 1999. Carbon cycling in the upper waters of the Sargasso Sea: I. Numerical simulation of differential carbon and nitrogen fluxes. *Deep-Sea Research Part I-Oceanographic Research Papers* 46(2):205-269. [http://dx.doi.org/10.1016/S0967-0637\(98\)00062-4](http://dx.doi.org/10.1016/S0967-0637(98)00062-4)

Boettger RC. 1982. Studies on the small invertebrate plankton of the Sargasso Sea. *Helgolander Meeresuntersuchungen* 35(3):369-383. <http://dx.doi.org/10.1007/BF02006144>

Bonhommeau S, Blanke B, Treguier AM, Grima N, Rivot E, Vermard Y, Greiner E, Le Pape O. 2009. How fast can the European eel (*Anguilla anguilla*) larvae cross the Atlantic Ocean? *Fisheries Oceanography* 18(6):371-385. <http://dx.doi.org/10.1111/j.1365-2419.2009.00517.x>

Bonhommeau S, Castonguay M, Rivot E, Sabatie R, Le Pape O. 2010. The duration of migration of Atlantic *Anguilla* larvae. *Fish and Fisheries* 11(3):289-306. <http://dx.doi.org/10.1111/j.1467-2979.2010.00362.x>

- Bonhommeau S, Chassot E, Planque B, Rivot E, Knap AH, Le Pape O. 2008. Impact of climate on eel populations of the Northern Hemisphere. *Marine Ecology-Progress Series* 373:71-80. <http://dx.doi.org/10.3354/meps07696>
- Bonhommeau S, Chassot E, Rivot E. 2008. Fluctuations in European eel (*Anguilla anguilla*) recruitment resulting from environmental changes in the Sargasso Sea. *Fisheries Oceanography* 17(1):32-44. <http://dx.doi.org/10.1111/j.1365-2419.2007.00453.x>
- Bottazzi EM, Andreoli MG. 1982. Distribution of acantharia in the western Sargasso Sea in correspondence with "thermal fronts". *Protozoologiya* 29(2):162-169. <http://dx.doi.org/10.1111/j.1550-7408.1982.tb04008.x>
- Boxshall GA. 1981. *Sinoculosapphirina deevayae*, a new bathypelagic genus and species of the family sapphirinidae (copepoda: poecilostomatoida) from the Sargasso Sea off Bermuda. *Bulletin of Marine Science* 31(2):307-311. <http://www.ingentaconnect.com/content/umrsmas/bullmar/1981/00000031/00000002/art00004>
- Bratnick M, Gemmill WH, United States. Naval Oceanographic O. 1970. Thermal gradients in the southern Sargasso Sea. Washington, D.C.: Naval Oceanographic Office.
- Brekhovskikh AL, Drozdov VN, Moroshkin KV. 1979. Mesoscale geostrophic currents in the central part of the Polymode test area in the winter and spring of 1978. *Oceanology of the Academy of Sciences of the USSR* 19(3):265-268.
- Brew HS, Moran SB, Lomas MW, Burd AB. 2009. Plankton community composition, organic carbon and thorium-234 particle size distributions, and particle export in the Sargasso Sea. *Journal of Marine Research* 67(6):845-868. <http://www.ingentaconnect.com/content/jmr/jmr/2009/00000067/00000006/art00006>
- Brewer PG, Nozaki Y, Spencer DW, Fler AP. 1980. Sediment trap experiments in the deep North Atlantic: isotopic and elemental fluxes. *Journal of Marine Research* 38(4):703-728.
- Bricaud A, Stramski D. 1990. Spectral absorption coefficients of living phytoplankton and nonalgal biogenous matter: A comparison between the Peru upwelling area and the Sargasso Sea. *Limnology and Oceanography* 35(3):562-582. http://www.aslo.org/lo/toc/vol_35/issue_3/0562.pdf
- Briscoe MG. 1977. On current fine structure and moored current meter measurements of internal waves. *Deep-Sea Research* 24(12):1121-1131. [http://dx.doi.org/10.1016/0146-6291\(77\)90516-1](http://dx.doi.org/10.1016/0146-6291(77)90516-1)
- Brix H, Gruber N, Karl DM, Bates NR. 2006. On the relationships between primary, net community, and export production in subtropical gyres. *Deep-Sea Research Part II-Topical Studies in Oceanography* 53(5-7):698-717. <http://dx.doi.org/10.1016/j.dsr2.2006.01.024>
- Brooks A. 1968. Hydrographic observations in the Sargasso Sea off Bermuda, May 1965 - April

1967. St. George's West, Bermuda: Bermuda Biological Station for Research.
- Brooks AL, Saenger RA. 1991. Vertical size-depth distribution properties of midwater fish off Bermuda, with comparative reviews for other open ocean areas. *Canadian Journal of Fisheries and Aquatic Sciences* 48(4):694-721. <http://dx.doi.org/10.1139/f91-086>
- Brundage WL, Dugan JP. 1986. Observations of an anticyclonic eddy of 18-degree C water in the Sargasso Sea. *Journal of Physical Oceanography* 16(4):717-727. [http://dx.doi.org/10.1175/1520-0485\(1986\)016<0717:OOAAEO>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1986)016<0717:OOAAEO>2.0.CO;2)
- Brzezinski MA, Kosman CA. 1996. Silica production in the Sargasso Sea during spring 1989. *Marine Ecology-Progress Series* 142(1-3):39-45. <http://dx.doi.org/10.3354/meps142039>
- Brzezinski MA, Nelson DM. 1995. The annual silica cycle in the Sargasso Sea near Bermuda. *Deep-Sea Research Part I-Oceanographic Research Papers* 42(7):1215-1237. [http://dx.doi.org/10.1016/0967-0637\(95\)93592-3](http://dx.doi.org/10.1016/0967-0637(95)93592-3)
- Brzezinski MA, Nelson DM. 1996. Chronic substrate limitation of silicic acid uptake rates in the western Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography* 43(2-3):437-453. [http://dx.doi.org/10.1016/0967-0645\(95\)00099-2](http://dx.doi.org/10.1016/0967-0645(95)00099-2)
- Buck KR, Chavez FP, Campbell L. 1996. Basin-wide distributions of living carbon components and the inverted trophic pyramid of the central gyre of the North Atlantic Ocean, summer 1993. *Aquatic Microbial Ecology* 10(3):283-298. <http://dx.doi.org/10.3354/ame010283>
- Bucklin A, Ortman BD, Jennings RM, Nigro LM, Sweetman CJ, Copley NJ, Sutton T, Wiebe PH. 2010. A "Rosetta Stone" for metazoan zooplankton: DNA barcode analysis of species diversity of the Sargasso Sea (Northwest Atlantic Ocean). *Deep-Sea Research Part II-Topical Studies in Oceanography* 57(24-26):2234-2247. <http://dx.doi.org/10.1016/j.dsr2.2010.09.025>
- Buesseler KO, Lamborg C, Cai P, Escoube R, Johnson R, Pike S, Masque P, McGillicuddy D, Verdeny E. 2008. Particle fluxes associated with mesoscale eddies in the Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography* 55(10-13):1426-1444. <http://dx.doi.org/10.1016/j.dsr2.2008.02.007>
- Buesseler KO, Michaels AF, Siegel DA, Knap AH. 1994. A three dimensional time-dependent approach to calibrating sediment trap fluxes. *Global Biogeochemical Cycles* 8(2):179-193. <http://dx.doi.org/10.1029/94GB00207>
- Bulgakov NP, Polonskij AB. 1982. The effect of synoptic eddies on heat distribution in the Sargasso Sea. *Okeanologiya* 22(2):170-173.
- Burlakova ZP, Kholodov VI, Kuz'menko LV. 1983. Structure of the phytoplankton community in the vicinity of eddy formation in the Sargasso Sea. *Ehkologiya morya*(13):3-13.
- Burney CM, Davis PG, Johnson KM, Sieburth J. 1981. Dependence of dissolved carbohydrate concentrations upon small scale nanoplankton and bacterioplankton distributions in the western Sargasso Sea. *Marine Biology* 65(3):289-296. <http://dx.doi.org/10.1007/BF00397124>

Butler JN, Morris BF, Cadwallader J, Stoner AW. 1983. Studies of Sargassum and the Sargassum community. Bermuda Biological Station for Research.

Butler JN, Morris BF, Sass J. 1973. Pelagic tar from Bermuda and the Sargasso Sea. Bermuda Biological Station for Research.

Butler JN, Stoner AW. 1984. Pelagic Sargassum: has its biomass changed in the last 50 years? *Deep-Sea Research* 31(10A):1259-1264. [http://dx.doi.org/10.1016/0198-0149\(84\)90061-X](http://dx.doi.org/10.1016/0198-0149(84)90061-X)

Calder DR. 1995. Hydroid Assemblages on Holopelagic Sargassum from the Sargasso Sea at Bermuda. *Bulletin of Marine Science* 56(2):537-546.
<http://www.ingentaconnect.com/content/umrsmas/bullmar/1995/00000056/00000002/art00011>

Campbell L, Iturriaga R. 1988. Identification of *Synechococcus* spp. in the Sargasso Sea by immunofluorescence and fluorescence excitation spectroscopy performed on individual cells. *Limnology and Oceanography* 33(5):1196-1201.
http://www.aslo.org/lo/pdf/vol_33/issue_5/1196.pdf

Campos M, Farrenkopf AM, Jickells TD, Luther GW. 1996. A comparison of dissolved iodine cycling at the Bermuda Atlantic Time-Series station and Hawaii Ocean Time-Series Station. *Deep-Sea Research Part II-Topical Studies in Oceanography* 43(2-3):455-466.
[http://dx.doi.org/10.1016/0967-0645\(95\)00100-X](http://dx.doi.org/10.1016/0967-0645(95)00100-X)

Capone DG, Burns JA, Montoya JP, Subramaniam A, Mahaffey C, Gunderson T, Michaels AF, Carpenter EJ. 2005. Nitrogen fixation by *Trichodesmium* spp.: An important source of new nitrogen to the tropical and subtropical North Atlantic Ocean. *Global Biogeochemical Cycles* 19(2):Gb2024. <http://dx.doi.org/10.1029/2004gb002331>

Carder KL, Steward RG, Betzer PR, Johnson DL, Prospero JM. 1986. Dynamics and composition of particles from an aeolian input event to the Sargasso Sea. *Journal of Geophysical Research-Atmospheres* 91(D1):1055-1066. <http://dx.doi.org/10.1029/JD091iD01p01055>

Carlson CA, Ducklow HW. 1996. Growth of bacterioplankton and consumption of dissolved organic carbon in the Sargasso Sea. *Aquatic Microbial Ecology* 10(1):69-85.
<http://dx.doi.org/10.3354/ame010069>

Carlson CA, Ducklow HW, Hansell DA, Smith WO. 1998. Organic carbon partitioning during spring phytoplankton blooms in the Ross Sea polynya and the Sargasso Sea. *Limnology and Oceanography* 43(3):375-386. <http://dx.doi.org/10.4319/lo.1998.43.3.0375>

Carlson CA, Ducklow HW, Michaels AF. 1994. Annual flux of dissolved organic carbon from the euphotic zone in the northwestern Sargasso Sea. *Nature* 371(6496):405-408.
<http://dx.doi.org/10.1038/371405a0>

Carlson CA, Ducklow HW, Sleeter TD. 1996. Stocks and dynamics of bacterioplankton in the northwestern Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography*

43(2-3):491-515. [http://dx.doi.org/10.1016/0967-0645\(95\)00101-8](http://dx.doi.org/10.1016/0967-0645(95)00101-8)

Carlson CA, Giovannoni SJ, Hansell DA, Goldberg SJ, Parsons R, Otero MP, Vergin K, Wheeler BR. 2002. Effect of nutrient amendments on bacterioplankton production, community structure, and DOC utilization in the northwestern Sargasso Sea. *Aquatic Microbial Ecology* 30(1):19-36. <http://dx.doi.org/10.3354/ame030019>

Carlson CA, Giovannoni SJ, Hansell DA, Goldberg SJ, Parsons R, Vergin K. 2004. Interactions among dissolved organic carbon, microbial processes, and community structure in the mesopelagic zone of the northwestern Sargasso Sea. *Limnology and Oceanography* 49(4):1073-1083. <http://dx.doi.org/10.4319/lo.2004.49.4.1073>

Carlson CA, Morris R, Parsons R, Treusch AH, Giovannoni SJ, Vergin K. 2009. Seasonal dynamics of SAR11 populations in the euphotic and mesopelagic zones of the northwestern Sargasso Sea. *Isme Journal* 3(3):283-295. <http://dx.doi.org/10.1038/ismej.2008.117>

Caron DA, Dam HG, Kremer P, Lessard EJ, Madin LP, Malone TC, Napp JM, Peele ER, Roman MR, Youngbluth MJ. 1995. The contribution of microorganisms to particulate carbon and nitrogen in surface waters of the Sargasso Sea near Bermuda. *Deep-Sea Research Part I-Oceanographic Research Papers* 42(6):943-972. [http://dx.doi.org/10.1016/0967-0637\(95\)00027-4](http://dx.doi.org/10.1016/0967-0637(95)00027-4)

Caron DA, Davis PG, Madin LP, Sieburth J. 1982. Heterotrophic bacteria and bacterivorous Protozoa in oceanic macroaggregates. *Science* 218(4574):795-797. <http://dx.doi.org/10.1126/science.218.4574.795>

Caron DA, Lim EL, Sanders RW, Dennett MR, Berninger UG. 2000. Responses of bacterioplankton and phytoplankton to organic carbon and inorganic nutrient additions in contrasting oceanic ecosystems. *Aquatic Microbial Ecology* 22(2):175-184. <http://dx.doi.org/10.3354/ame022175>

Caron DA, Peele ER, Lim EL, Dennett MR. 1999. Picoplankton and nanoplankton and their trophic coupling in surface waters of the Sargasso Sea south of Bermuda. *Limnology and Oceanography* 44(2):259-272. <http://dx.doi.org/10.4319/lo.1999.44.2.0259>

Carpenter EJ. 1973. Nitrogen fixation by *Oscillatoria* (*Trichodesmium*) *thiebautii* in the southwestern Sargasso Sea. *Deep Sea Research and Oceanographic Abstracts* 20(3):285-288. [http://dx.doi.org/10.1016/0011-7471\(73\)90017-x](http://dx.doi.org/10.1016/0011-7471(73)90017-x)

Carpenter EJ, Cox JL. 1974. Production of pelagic Sargassum and a blue-green epiphyte in the western Sargasso Sea. *Limnology and Oceanography* 19(3):429-436. http://www.aslo.org/lo/toc/vol_19/issue_3/0429.pdf

Carpenter EJ, McCarthy JJ. 1975. Nitrogen fixation and uptake of combined nitrogenous nutrients by *Oscillatoria* (*Trichodesmium*) *thiebautii* in the western Sargasso Sea. *Limnology and Oceanography* 20(3):389-401. http://www.aslo.org/lo/toc/vol_20/issue_3/0389.pdf

Carpenter EJ, Price CC. 1977. Nitrogen fixation, distribution, and production of *Oscillatoria*

(Trichodesmium) spp. in the western Sargasso and Caribbean Seas. *Limnology and Oceanography* 22(1):60-72. http://www.aslo.org/lo/toc/vol_22/issue_1/0060.pdf

Carpenter EJ, Smith KL. 1972. Plastics on the Sargasso Sea surface. *Science* 175(4027):1240-1241. <http://dx.doi.org/10.1126/science.175.4027.1240>

Casey JR, Lomas MW, Mandecki J, Walker DE. 2007. Prochlorococcus contributes to new production in the Sargasso Sea deep chlorophyll maximum. *Geophysical Research Letters* 34(10):L10604. <http://dx.doi.org/10.1029/2006gl028725>

Casey JR, Lomas MW, Michelou VK, Dyhrman ST, Orchard ED, Ammerman JW, Sylvan JB. 2009. Phytoplankton taxon-specific orthophosphate (Pi) and ATP utilization in the western subtropical North Atlantic. *Aquatic Microbial Ecology* 58(1):31-44. <http://dx.doi.org/10.3354/ame01348>

Castonguay LD, McCleave JD. 1987. Distribution of Leptocephali of the Oceanic Species *Derichthys Serpentinus* and *Nessorhamphus Ingolfianus* (Family Derichthyidae) in the Western Sargasso Sea in Relation to Physical Oceanography. *Bulletin of Marine Science* 41(3):807-821. <http://www.ingentaconnect.com/content/umrsmas/bullmar/1987/00000041/00000003/art00003>

Castonguay M, McCleave JD. 1987. Vertical distributions, diel and ontogenetic vertical migrations and net avoidance of leptocephali of *Anguilla* and other common species in the Sargasso Sea. *Journal of Plankton Research* 9(1):195-214. <http://dx.doi.org/10.1093/plankt/9.1.195>

Cavender-Bares KK, Karl DM, Chisholm SW. 2001. Nutrient gradients in the western North Atlantic Ocean: Relationship to microbial community structure and comparison to patterns in the Pacific Ocean. *Deep-Sea Research Part I-Oceanographic Research Papers* 48(11):2373-2395. [http://dx.doi.org/10.1016/S0967-0637\(01\)00027-9](http://dx.doi.org/10.1016/S0967-0637(01)00027-9)

Charria G, Dadou I, Llido J, Drevillon M, Garcon V. 2008. Importance of dissolved organic nitrogen in the north Atlantic Ocean in sustaining primary production: a 3-D modelling approach. *Biogeosciences* 5(5):1437-1455. <http://dx.doi.org/10.5194/bg-5-1437-2008>

Cheney RE. 1982. Comparison Data for SEASAT Altimetry in the Western North Atlantic. *Journal of Geophysical Research-Oceans* 87(C5):3247-3253. <http://dx.doi.org/10.1029/JC087iC05p03247>

Chernyakova AM. 1978. Characteristics of the space-time variability of oxygen in the POLYMODE Area (Sargasso Sea) in relation to the dynamics of oceanic eddies. *Oceanology of the Academy of Sciences of the USSR* 18(5):539-542.

Chernyakova AM. 1978. Peculiarities of the spatial-temporal oxygen variability in the POLYMODE area (the Sargasso Sea) in relation to oceanic gyre dynamics. *Okeanologiya/Oceanology* 18(5):827-833.

Chernyakova AM, Romanov AS. 1980. Inhomogeneities of the fields of chemical characteristics

in the POLYMODE region, caused by the eddy structure of waters. *Oceanology of the Academy of Sciences of the USSR* 20(1):40-44.

Chesselet R, Fontugne M, Buat-Menard P, Lambert CE. 1981. The origin of particulate organic carbon in the marine atmosphere as indicated by its stable carbon isotopic composition. *Geophysical Research Letters* 8(4):345-348. <http://dx.doi.org/10.1029/GL008i004p00345>

Cho JC, Giovannoni SJ. 2003. *Croceibacter atlanticus* gen. nov., sp nov., a novel marine bacterium in the family Flavobacteriaceae. *Systematic and Applied Microbiology* 26(1):76-83. <http://dx.doi.org/10.1078/072320203322337344>

Cho JC, Giovannoni SJ. 2003. *Parvularcula bermudensis* gen. nov., sp nov., a marine bacterium that forms a deep branch in the alpha-Proteobacteria. *International Journal of Systematic and Evolutionary Microbiology* 53:1031-1036. <http://dx.doi.org/10.1099/ijs.0.02566-0>

Cho JC, Giovannoni SJ. 2004. *Oceanicola granulosus* gen. nov., sp nov and *Oceanicola batsensis* sp nov., poly-beta-hydroxybutyrate-producing marine bacteria in the order 'Rhodobacterales'. *International Journal of Systematic and Evolutionary Microbiology* 54:1129-1136. <http://dx.doi.org/10.1099/ijs.0.03015-0>

Cianca A, Helmke P, Mourino B, Rueda MJ, Llinas O, Neuer S. 2007. Decadal analysis of hydrography and in situ nutrient budgets in the western and eastern North Atlantic subtropical gyre. *Journal of Geophysical Research-Oceans* 112(C7):C07025. <http://dx.doi.org/10.1029/2006jc003788>

Cleveland JS, Perry MJ, Kiefer DA, Talbot MC. 1989. Maximal quantum yield of photosynthesis in the northwestern Sargasso Sea. *Journal of Marine Research* 47(4):869-886. <http://dx.doi.org/10.1357/002224089785076055>

Clevestam PD, Ogonowski M, Sjoberg NB, Wickstrom H. 2011. Too short to spawn? Implications of small body size and swimming distance on successful migration and maturation of the European eel *Anguilla anguilla*. *Journal of Fish Biology* 78(4):1073-1089. <http://dx.doi.org/10.1111/j.1095-8649.2011.02920.x>

Colton JB, Smith DE, Jossi JW. 1975. Further observations on a thermal front in the Sargasso Sea. *Deep Sea Research and Oceanographic Abstracts* 22(6):433-439. [http://dx.doi.org/10.1016/0011-7471\(75\)90065-0](http://dx.doi.org/10.1016/0011-7471(75)90065-0)

Comparini A, Rodino E. 1980. Electrophoretic evidence for two species of *Anguilla leptocephali* in the Sargasso Sea. *Nature* 287(5781):435-437. <http://dx.doi.org/10.1038/287435a0>

Comparini A, Schoth M. 1982. Comparison of electrophoretic and meristic characters of 0-group eel larvae from the Sargasso Sea. *Helgolander Meeresuntersuchungen* 35(3):289-299. <http://dx.doi.org/10.1007/BF02006137>

Connelly DP, Statham PJ, Knap AH. 2006. Seasonal changes in speciation of dissolved chromium in the surface Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers*

53(12):1975-1988. <http://dx.doi.org/10.1016/j.dsr.2006.09.005>

Conte M. 1997. Oceanic flux program - Particle flux measurements in the deep Sargasso Sea. *Oceanus* 40(2):15-19. <http://www.whoi.edu/oceanus/viewArticle.do?id=2389&archives=true>

Conte MH, Bishop JKB, Backus RH. 1986. Nonmigratory, 12-kHz, deep scattering layers of Sargasso Sea origin in warm-core rings. *Deep-Sea Research Part a-Oceanographic Research Papers* 33(11-12):1869-&. [http://dx.doi.org/10.1016/0198-0149\(86\)90083-X](http://dx.doi.org/10.1016/0198-0149(86)90083-X)

Conte MH, Dickey TD, Weber JC, Johnson RJ, Knap AH. 2003. Transient physical forcing of pulsed export of bioreactive material to the deep Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 50(10-11):1157-1187. [http://dx.doi.org/10.1016/S0967-0637\(03\)00141-9](http://dx.doi.org/10.1016/S0967-0637(03)00141-9)

Conte MH, Ralph N, Ross EH. 2001. Seasonal and interannual variability in deep ocean particle fluxes at the Oceanic Flux Program (OFP)/Bermuda Atlantic Time Series (BATS) site in the western Sargasso Sea near Bermuda. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1471-1505. [http://dx.doi.org/10.1016/S0967-0645\(00\)00150-8](http://dx.doi.org/10.1016/S0967-0645(00)00150-8)

Conte MH, Weber JC, King LL, Wakeham SG. 2001. The alkenone temperature signal in western North Atlantic surface waters. *Geochimica Et Cosmochimica Acta* 65(23):4275-4287. [http://dx.doi.org/10.1016/S0016-7037\(01\)00718-9](http://dx.doi.org/10.1016/S0016-7037(01)00718-9)

Conte MH, Weber JC, Ralph N. 1998. Episodic particle flux in the deep Sargasso Sea: an organic geochemical assessment. *Deep-Sea Research Part I-Oceanographic Research Papers* 45(11):1819-1841. [http://dx.doi.org/10.1016/S0967-0637\(98\)00046-6](http://dx.doi.org/10.1016/S0967-0637(98)00046-6)

Conway DVP, Ellis CJ, Humpheryes IG. 1990. Deep distributions of oceanic cirripede larvae in the Sargasso Sea and surrounding North Atlantic Ocean. *Marine Biology* 105(3):419-428. <http://dx.doi.org/10.1007/BF01316313>

Cornillon P, Evans D, Large W. 1986. Warm Outbreaks of the Gulf Stream Into the Sargasso Sea. *Journal of Geophysical Research-Oceans* 91(C5):6583-6596. <http://dx.doi.org/10.1029/JC091iC05p06583>

Cornillon P, Stramma L. 1985. The distribution of diurnal sea surface warming events in the western Sargasso Sea. *Journal of Geophysical Research-Oceans* 90(NC6):1811-&. <http://dx.doi.org/10.1029/JC090iC06p11811>

Cotner JB, Ammerman JW, Peele ER, Bentzen E. 1997. Phosphorus-limited bacterioplankton growth in the Sargasso Sea. *Aquatic Microbial Ecology* 13(2):141-149. <http://dx.doi.org/10.3354/ame013141>

Countway PD, Gast RJ, Dennett MR, Savai P, Rose JM, Caron DA. 2007. Distinct protistan assemblages characterize the euphotic zone and deep sea(2500 m) of the western North Atlantic (Sargasso Sea and Gulf Stream). *Environmental Microbiology* 9(5):1219-1232. <http://dx.doi.org/10.1111/j.1462-2920.2007.01243.x>

- Cox JL, Wiebe PH, Ortner P, Boyd S. 1982. Seasonal development of subsurface chlorophyll maxima in slope water and northern Sargasso Sea of the northwestern Atlantic Ocean. *Biological Oceanography* 1(3):271-285.
- Curry RG, McCartney MS. 2001. Ocean gyre circulation changes associated with the North Atlantic Oscillation. *Journal of Physical Oceanography* 31(12):3374-3400.
[http://dx.doi.org/10.1175/1520-0485\(2001\)031<3374%3AOGCCAW>2.0.CO%3B2](http://dx.doi.org/10.1175/1520-0485(2001)031<3374%3AOGCCAW>2.0.CO%3B2)
- Cushmanroisin B. 1987. On the Role of Heat Flux in the Gulf Stream-Sargasso Sea Subtropical Gyre System. *Journal of Physical Oceanography* 17(12):2189-2202.
[http://dx.doi.org/10.1175/1520-0485\(1987\)017<2189:OTROHF>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1987)017<2189:OTROHF>2.0.CO;2)
- Cutter GA, Cutter LS, Filippino KC. 2004. Sources and cycling of carbonyl sulfide in the Sargasso Sea. *Limnology and Oceanography* 49(2):555-565. <http://dx.doi.org/10.4319/lo.2004.49.2.0555>
- Dacey JWH, Howse FA, Michaels AF, Wakeham SG. 1998. Temporal variability of dimethylsulfide and dimethylsulfoniopropionate in the Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 45(12):2085-+. [http://dx.doi.org/10.1016/S0967-0637\(98\)00048-X](http://dx.doi.org/10.1016/S0967-0637(98)00048-X)
- Dannewitz J, Maes GE, Johansson L, Wickstrom H, Volckaert FAM, Jarvi T. 2005. Panmixia in the European eel: a matter of time. *Proceedings of the Royal Society B-Biological Sciences* 272(1568):1129-1137. <http://dx.doi.org/10.1098/rspb.2005.3064>
- Dasaro EA. 1984. Wind Forced Internal Waves in the North Pacific and Sargasso Sea. *Journal of Physical Oceanography* 14(4):781-794.
[http://dx.doi.org/10.1175/1520-0485\(1984\)014<0781:WFIWIT>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1984)014<0781:WFIWIT>2.0.CO;2)
- Dasaro EA, Perkins H. 1984. A Near-Inertial Internal Wave Spectrum for the Sargasso Sea in Late Summer. *Journal of Physical Oceanography* 14(3):489-505.
[http://dx.doi.org/10.1175/1520-0485\(1984\)014<0489:ANIWS>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1984)014<0489:ANIWS>2.0.CO;2)
- Day CG, Webster F. 1965. Some current measurements in the Sargasso Sea. *Deep Sea Research and Oceanographic Abstracts* 12(6):805-814. [http://dx.doi.org/10.1016/0011-7471\(65\)90803-x](http://dx.doi.org/10.1016/0011-7471(65)90803-x)
- Debaar HJW. 1991. On cerium anomalies in the Sargasso Sea. *Geochimica Et Cosmochimica Acta* 55(10):2981-2983. [http://dx.doi.org/10.1016/0016-7037\(91\)90463-F](http://dx.doi.org/10.1016/0016-7037(91)90463-F)
- Deevey GB. 1968. Pelagic ostracods of the Sargasso Sea off Bermuda; description of species, seasonal and vertical distribution. New Haven: Peabody Museum of Natural History, Yale University.
- Deevey GB. 1971. The annual cycle in quantity and composition of the zooplankton of the Sargasso Sea off Bermuda. I. The upper 500 m. *Limnology and Oceanography* 16(2):219-240.
http://www.aslo.org/lo/toc/vol_16/issue_2/0219.pdf
- Deevey GB. 1974. *Chiridiella* Sars (Copepoda: Calanoida): descriptions of nine species, six new, from the Sargasso Sea. *Bulletin of Marine Science* 24(2):439-472.
<http://www.ingentaconnect.com/content/umrsmas/bullmar/1974/00000024/00000002/art00>

010

Deevey GB. 1978. On new and little known species of Archiconchoecia (Myodocopa, Halocyprididae) from the Sargasso and Caribbean Seas, with descriptions of seven new species. *Bulletin of the Florida State Museum: Biological Sciences* 23(2):105-138.

Deevey GB, Brooks A. 1980. The planktonic ostracods of the Sargasso Sea off Bermuda : species composition and vertical and seasonal distribution between the surface and 2000 m. Gainesville: FSM, University of Florida.

Deevey GB, Brooks AL. 1971. The annual cycle in quantity and composition of the zooplankton of the Sargasso Sea off Bermuda. II. The surface to 2,000 m. *Limnology and Oceanography* 16(6):927-943. http://www.aslo.org/lo/toc/vol_16/issue_6/0927.pdf

Deevey GB, Brooks AL. 1977. Copepods of the Sargasso Sea off Bermuda: Species composition, and vertical and seasonal distribution between the surface and 2000 M. *Bulletin of Marine Science* 27(2):256-291. <http://www.ingentaconnect.com/content/umrsmas/bullmar/1977/00000027/00000002/art00006>

del Valle DA, Kieber DJ, Kiene RP. 2007. Depth-dependent fate of biologically-consumed dimethylsulfide in the Sargasso Sea. *Marine Chemistry* 103(1-2):197-208. <http://dx.doi.org/10.1016/j.marchem.2006.07.005>

Deuser WG. 1986. Seasonal and interannual variations in deep-water particle fluxes in the Sargasso Sea and their relation to surface hydrography. *Deep-Sea Research Part a-Oceanographic Research Papers* 33(2):225-246. [http://dx.doi.org/10.1016/0198-0149\(86\)90120-2](http://dx.doi.org/10.1016/0198-0149(86)90120-2)

Deuser WG. 1987. Seasonal variations in isotopic composition and deep-water fluxes of the tests of perennially abundant planktonic foraminifera of the Sargasso Sea; results from sediment-trap collections and their paleoceanographic significance. *Journal of Foraminiferal Research* 17(1):14-27. <http://dx.doi.org/10.2113/gsfir.17.1.14>

Deuser WG, Brewer PG, Jickells TD, Commeau RF. 1983. Biological control of the removal of abiogenic particles from the surface ocean. *Science* 219(4583):388-391. <http://dx.doi.org/10.1126/science.219.4583.388>

Deuser WG, Jickells TD, King P, Commeau JA. 1995. Decadal and annual changes in biogenic opal and carbonate fluxes to the deep Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 42(11-12):1923-1932. [http://dx.doi.org/10.1016/0967-0637\(95\)00093-3](http://dx.doi.org/10.1016/0967-0637(95)00093-3)

Deuser WG, Ross EH. 1989. Seasonally abundant planktonic foraminifera of the Sargasso Sea; succession, deep-water fluxes, isotopic compositions, and paleoceanographic implications. *Journal of Foraminiferal Research* 19(4):268-293. <http://dx.doi.org/10.2113/gsfir.19.4.268>

Deuser WG, Ross EH, Anderson RF. 1981. Seasonality in the supply of sediment to the deep

Sargasso Sea and implications for the rapid transfer of matter to the deep ocean. *Deep-Sea Research. Part A: Oceanographic Research Papers* 28(5):495-505.

[http://dx.doi.org/10.1016/0198-0149\(81\)90140-0](http://dx.doi.org/10.1016/0198-0149(81)90140-0)

Dickey T, Granata T, Marra J, Langdon C, Wiggert J, Chaijochner Z, Hamilton M, Vazquez J, Stramska M, Bidigare R et al. . 1993. Seasonal Variability of Bio-Optical and Physical Properties in the Sargasso Sea. *Journal of Geophysical Research-Oceans* 98(C1):865-898.

<http://dx.doi.org/10.1029/92JC01830>

Dickey T, Marra J, Granata T, Langdon C, Hamilton M, Wiggert J, Siegel D, Bratkovich A. 1991. Concurrent High Resolution Bio-optical and Physical Time Series Observations in the Sargasso Sea During the Spring of 1987. *Journal of Geophysical Research-Oceans* 96(C5):8643-8663.

<http://dx.doi.org/10.1029/91JC00413>

Diekmann R, Piatkowski U. 2002. Early life stages of cephalopods in the Sargasso Sea: distribution and diversity relative to hydrographic conditions. *Marine Biology* 141(1):123-130.

<http://dx.doi.org/10.1007/s00227-002-0817-6>

Donaldson HA. 1975. Vertical distribution and feeding of sergestid shrimps (Decapoda: Natantia) collected near Bermuda. *Marine Biology* 31(1):37-50.

<http://dx.doi.org/10.1007/BF00390646>

Doney SC. 1996. A synoptic atmospheric surface forcing data set and physical upper ocean model for the US JGOFS Bermuda Atlantic Time-Series Study site. *Journal of Geophysical Research-Oceans* 101(C11):25615-25634. <http://dx.doi.org/10.1029/96JC01424>

Doney SC, Glover DM, Najjar RG. 1996. A new coupled, one-dimensional biological-physical model for the upper ocean: Applications to the JGOFS Bermuda Atlantic time-series study (BATS) site. *Deep-Sea Research Part II-Topical Studies in Oceanography* 43(2-3):591-624.

[http://dx.doi.org/10.1016/0967-0645\(95\)00104-2](http://dx.doi.org/10.1016/0967-0645(95)00104-2)

Druffel ERM, Bauer JE, Griffin S, Beupre SR, Hwang J. 2008. Dissolved inorganic radiocarbon in the North Pacific Ocean and Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 55(4):451-459. <http://dx.doi.org/10.1016/j.dsi-.2007.12.007>

Druffel ERM, Bauer JE, Griffin S, Hwang J. 2003. Penetration of anthropogenic carbon into organic particles of the deep ocean. *Geophysical Research Letters* 30(14):1744.

<http://dx.doi.org/10.1029/2003gl017423>

Druffel ERM, Williams PM, Bauer JE, Ertel JR. 1992. Cycling of Dissolved and Particulate Organic Matter in the Open Ocean. *Journal of Geophysical Research-Oceans* 97(C10):15639-15659.

<http://dx.doi.org/10.1029/92JC01511>

Ducklow HW, Carlson CA, Bates NR, Knap AH, Michaels AF. 1995. Dissolved Organic Carbon as a Component of the Biological Pump in the North Atlantic Ocean. *Philosophical Transactions of the Royal Society of London Series B-Biological Sciences* 348(1324):161-167.

<http://dx.doi.org/10.1098/rstb.1995.0058>

- Dugan JP, Mied RP, Mignerey PC, Schuetz AF. 1982. Compact, Intrathermocline Eddies in the Sargasso Sea. *Journal of Geophysical Research-Oceans* 87(C1):385-393.
<http://dx.doi.org/10.1029/JC087iC01p00385>
- Dugdale RC, Goering JJ, Ryther JH. 1964. High nitrogen fixation rates in the Sargasso Sea and the Arabian Sea. *Limnology and Oceanography* 9(4):507-510.
http://www.aslo.org/lo/toc/vol_9/issue_4/0507.pdf
- Dugdale RC, National Science F. 1964. Nitrogen cycle in the Sargasso Sea : final report to the National Science Foundation, August 1, 1962 - July 31, 1964. College: University of Alaska, Institute of Marine Science.
- DuRand MD, Olson RJ, Chisholm SW. 2001. Phytoplankton population dynamics at the Bermuda Atlantic Time-series station in the Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1983-2003. [http://dx.doi.org/10.1016/S0967-0645\(00\)00166-1](http://dx.doi.org/10.1016/S0967-0645(00)00166-1)
- Durif CMF, Dufour S, Elie P. 2006. Impact of silvering stage, age, body size and condition on reproductive potential of the European eel. *Marine Ecology-Progress Series* 327:171-181.
<http://dx.doi.org/10.3354/meps327171>
- Durif CMF, Gjosaeter J, Vollestad LA. 2011. Influence of oceanic factors on *Anguilla anguilla* (L.) over the twentieth century in coastal habitats of the Skagerrak, southern Norway. *Proceedings of the Royal Society B-Biological Sciences* 278(1704):464-473.
<http://dx.doi.org/10.1098/rspb.2010.1547>
- Dutkiewicz S, Follows M, Marshall J, Gregg WW. 2001. Interannual variability of phytoplankton abundances in the North Atlantic. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(10):2323-2344. [http://dx.doi.org/10.1016/S0967-0645\(00\)00178-8](http://dx.doi.org/10.1016/S0967-0645(00)00178-8)
- Dyhrman ST, Chappell PD, Haley ST, Moffett JW, Orchard ED, Waterbury JB, Webb EA. 2006. Phosphonate utilization by the globally important marine diazotroph *Trichodesmium*. *Nature* 439(7072):68-71. <http://dx.doi.org/10.1038/nature04203>
- Dykman VZ, Kiseleva OA. 1981. On the Fine Structure, Internal Waves and Small-Scale Turbulence Relationship. *Okeanologiya* 21(4):605-612.
- Eden BR, Steinberg DK, Goldthwait SA, McGillicuddy DJ. 2009. Zooplankton community structure in a cyclonic and mode-water eddy in the Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 56(10):1757-1776.
<http://dx.doi.org/10.1016/j.dsr.2009.05.005>
- Elrod JA, Kester DR. 1985. Sargasso Sea reference curves for salinity, potential temperature, oxygen, nitrate, phosphate, and silicate as functions of sigma-theta. *Deep-Sea Research Part a-Oceanographic Research Papers* 32(4):391-405.
[http://dx.doi.org/10.1016/0198-0149\(85\)90087-1](http://dx.doi.org/10.1016/0198-0149(85)90087-1)
- Engelhaupt D, Hoelzel AR, Nicholson C, Frantzis A, Mesnick S, Gero S, Whitehead H, Rendell L,

- Miller P, De Stefanis R et al. . 2009. Female philopatry in coastal basins and male dispersion across the North Atlantic in a highly mobile marine species, the sperm whale (*Physeter macrocephalus*). *Molecular Ecology* 18(20):4193-4205.
<http://dx.doi.org/10.1111/j.1365-294X.2009.04355.x>
- Eriksen CC. 1988. Variability in the Upper-Ocean Internal Wave Field at a Sargasso Sea Site. *Journal of Physical Oceanography* 18(11):1495-1513.
[http://dx.doi.org/10.1175/1520-0485\(1988\)018<1495:VITUOI>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1988)018<1495:VITUOI>2.0.CO;2)
- Ewart CS, Meyers MK, Wallner ER, McGillicuddy DJ, Carlson CA. 2008. Microbial dynamics in cyclonic and anticyclonic mode-water eddies in the northwestern Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography* 55(10-13):1334-1347.
<http://dx.doi.org/10.1016/j.dsr2.2008.02.013>
- Fabry VJ, Deuser WG. 1991. Aragonite and magnesian calcite fluxes to the deep Sargasso Sea. *Deep-Sea Research Part a-Oceanographic Research Papers* 38(6):713-728.
[http://dx.doi.org/10.1016/0198-0149\(91\)90008-4](http://dx.doi.org/10.1016/0198-0149(91)90008-4)
- Fasham MJR, Sarmiento JL, Slater RD, Ducklow HW, Williams R. 1993. Ecosystem behavior at Bermuda Station "S" and ocean weather station "India": A general circulation model and observational analysis. *Global Biogeochemical Cycles* 7(2):379-415.
<http://dx.doi.org/10.1029/92GB02784>
- Fedoryako BI. 1980. Ichthyofauna of the surface water of the Sargasso Sea southwest of Bermuda Islands. *Voprosy Ikhtiologii* 20(4):579-589.
- Fedoryako BI. 1980. The ichthyofauna of the surface waters of the Sargasso Sea south-west of Bermuda. *Journal of Ichthyology* 20(4):1-9.
- Fedulov PP, Arkhipkin AI. 1986. Distribution of some abundant species of pelagic squid in the area between the Nova-Scotia shelf and the Sargasso Sea relative to hydrological and dynamic water-structure in spring. *Okeanologiya* 26(2):310-316.
- Feng P, Altabet MA, Montoya JP. 2002. Nitrogen fixation in the Sargasso Sea detected using natural variation in nitrogen isotopes. *Abstracts of Papers of the American Chemical Society* 224:128-ANYL.
- Ferguson JC. 1988. Autoradiographic demonstration of the use of free amino acid by Sargasso Sea zooplankton. *Journal of Plankton Research* 10(6):1225-1238.
<http://dx.doi.org/10.1093/plankt/10.6.1225>
- Fine ML. 1970. Faunal variations on pelagic Sargassum. *Marine Biology* 7(2):112-122.
<http://dx.doi.org/10.1007/BF00354914>
- Fossette S, Hobson VJ, Girard C, Calmettes B, Gaspar P, Georges JY, Hays GC. 2010. Spatio-temporal foraging patterns of a giant zooplanktivore, the leatherback turtle. *Journal of Marine Systems* 81(3):225-234. <http://dx.doi.org/10.1016/j.imarsys.2009.12.002>

- Freeland HJ, Rhines PB, Rossby T. 1975. Statistical observations of the trajectories of neutrally buoyant floats in the North Atlantic. *Journal of Marine Research* 33(3):383-404.
- Fricke H, Kaese R. 1995. Tracking of artificially matured eels (*Anguilla anguilla*) in the Sargasso Sea and the problem of the eel's spawning site. *Naturwissenschaften* 82(1):32-36.
<http://dx.doi.org/10.1007/BF01167868>
- Friedland KD, Miller MJ, Knights B. 2007. Oceanic changes in the Sargasso Sea and declines in recruitment of the European eel. *Ices Journal of Marine Science* 64(3):519-530.
<http://dx.doi.org/10.1093/icesjms/fsm022>
- Fuglister FC, United States. Hydrographic O, United States. Office of Naval R. 1947. *Hydrography of the Western Atlantic : the hydrography of the northwestern Sargasso Sea*. Woods Hole, Mass.: Woods Hole Oceanographic Institution.
- Fuhrman JA, Sleeter TD, Carlson CA, Proctor LM. 1989. Dominance of bacterial biomass in the Sargasso Sea and its ecological implications. *Marine Ecology-Progress Series* 57(3):207-217.
<http://www.int-res.com/articles/meps/57/m057p207.pdf>
- Fukai R, Ballestra S, Vas D, Murray CN, Statham G. 1976. Intercalibration programme: radionuclide measurements on a large volume sea water sample (SW-A-1). *Activities of the International Laboratory of Marine Radioactivity 1976 Report*. Jun 1976. No. IAEA-187.
- Gabric AJ, Matrai PA, Kiene RP, Cropp R, Dacey JWH, DiTullio GR, Najjar RG, Simo R, Toole DA, delValle DA et al. . 2008. Factors determining the vertical profile of dimethylsulfide in the Sargasso Sea during summer. *Deep-Sea Research Part II-Topical Studies in Oceanography* 55(10-13):1505-1518. <http://dx.doi.org/10.1016/j.dsr2.2008.02.002>
- Gagosian RB. 1976. A detailed vertical profile of sterols in the Sargasso Sea. *Limnology and Oceanography* 21(5):702-710. http://www.aslo.org/lo/toc/vol_21/issue_5/0702.pdf
- Garcon VC, Oschlies A, Doney SC, McGillicuddy D, Waniek J. 2001. The role of mesoscale variability on plankton dynamics in the North Atlantic. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(10):2199-2226. [http://dx.doi.org/10.1016/S0967-0645\(00\)00183-1](http://dx.doi.org/10.1016/S0967-0645(00)00183-1)
- Gardner B, Sullivan PJ, Morreale SJ, Epperly SP. 2008. Spatial and temporal statistical analysis of bycatch data: patterns of sea turtle bycatch in the North Atlantic. *Canadian Journal of Fisheries and Aquatic Sciences* 65(11):2461-2470. <http://dx.doi.org/10.1139/f08-152>
- Gargett AE, Osborn TR. 1981. Small-Scale Shear Measurements During the Fine and Microstructure Experiment (FAME). *Journal of Geophysical Research-Oceans* 86(C3):1929-1944.
<http://dx.doi.org/10.1029/JC086iC03p01929>
- Gargett AE, Sanford TB, Osborn TR. 1979. Surface mixing layers in the Sargasso Sea. *Journal of Physical Oceanography* 9(6):1090-1111.
[http://dx.doi.org/10.1175/1520-0485\(1979\)009<1090:SMLITS>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1979)009<1090:SMLITS>2.0.CO;2)
- Gartner JV, Steele P, Torres JJ. 1989. Aspects of the Distribution of Lanternfishes (Pisces:

- Myctophidae) from the Northern Sargasso Sea. *Bulletin of Marine Science* 45(3):555-563.
<http://www.ingentaconnect.com/content/umrsmas/bullmar/1989/00000045/00000003/art00001>
- Garver SA, Siegel DA. 1997. Inherent optical property inversion of ocean color spectra and its biogeochemical interpretation .1. Time series from the Sargasso Sea. *Journal of Geophysical Research-Oceans* 102(C8):18607-18625. <http://dx.doi.org/10.1029/96JC03243>
- Gasca R. 2007. Hyperiid amphipods of the Sargasso Sea. *Bulletin of Marine Science* 81(1):115-125.
<http://www.ingentaconnect.com/content/umrsmas/bullmar/2007/00000081/00000001/art00008>
- Gejnrrikh AK. 1982. On the temporal rearrangements of planktonic populations in the Norwegian and Sargasso Seas. *Okeanologiya* 22(2):293-296.
- Gil IM, Keigwin LD, Abrantes FG. 2009. Deglacial diatom productivity and surface ocean properties over the Bermuda Rise, northeast Sargasso Sea. *Paleoceanography* 24:Pa4101.
<http://dx.doi.org/10.1029/2008pa001729>
- Gin KYH, Chisholm SW, Olson RJ. 1999. Seasonal and depth variation in microbial size spectra at the Bermuda Atlantic time series station. *Deep-Sea Research Part I-Oceanographic Research Papers* 46(7):1221-1245. [http://dx.doi.org/10.1016/S0967-0637\(99\)00004-7](http://dx.doi.org/10.1016/S0967-0637(99)00004-7)
- Gin KYH, Guo JH, Cheong HF. 1998. A size-based ecosystem model for pelagic waters. *Ecological Modelling* 112(1):53-72. [http://dx.doi.org/10.1016/S0304-3800\(98\)00126-4](http://dx.doi.org/10.1016/S0304-3800(98)00126-4)
- Ginzburg AI, Zatselin AG, Sklyarov VE, Fedorov KN. 1980. Precipitation effects in the near surface oceanic layer. *Okeanologiya*(5):828-836.
- Giovannoni SJ, Britschgi TB, Moyer CL, Field KG. 1990. Genetic diversity in Sargasso Sea bacterioplankton. *Nature* 345(6270):60-63. <http://dx.doi.org/10.1038/345060a0>
- Glover DM, Doney SC, Mariano AJ, Evans RH, McCue SJ. 2002. Mesoscale variability in time series data: Satellite-based estimates for the US JGOFS Bermuda Atlantic Time-Series Study (BATS) site. *Journal of Geophysical Research-Oceans* 107(C8):3092.
<http://dx.doi.org/10.1029/2000jc000589>
- Glover HE, Garside C, Trees CC. 2007. Physiological responses of Sargasso Sea picoplankton to nanomolar nitrate perturbations. *Journal of Plankton Research* 29(3):263-274.
<http://dx.doi.org/10.1093/plankt/fbm013>
- Glover HE, Prezelin BB, Campbell L, Wyman M. 1988. Pico- and ultraplankton Sargasso Sea communities: variability and comparative distributions of *Synechococcus* spp. and algae. *Marine Ecology-Progress Series* 49(1-2):127-139.
<http://www.int-res.com/articles/meps/49/m049p127.pdf>
- Glover HE, Prezelin BB, Campbell L, Wyman M, Garside C. 1988. A nitrate-dependent

Synechococcus bloom in surface Sargasso Sea water. *Nature* 331(6152):161-163.

<http://dx.doi.org/10.1038/331161a0>

Goericke R. 1998. Response of phytoplankton community structure and taxon-specific growth rates to seasonally varying physical forcing in the Sargasso Sea off Bermuda. *Limnology and Oceanography* 43(5):921-935. <http://dx.doi.org/10.4319/lo.1998.43.5.0921>

Goericke R, Welschmeyer NA. 1993. The marine prochlorophyte *Prochlorococcus* contributes significantly to phytoplankton biomass and primary production in the Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 40(11-12):2283-2294.

[http://dx.doi.org/10.1016/0967-0637\(93\)90104-B](http://dx.doi.org/10.1016/0967-0637(93)90104-B)

Goericke R, Welschmeyer NA. 1998. Response of Sargasso Sea phytoplankton biomass, growth rates and primary production to seasonally varying physical forcing. *Journal of Plankton Research* 20(12):2223-2249. <http://dx.doi.org/10.1093/plankt/20.12.2223>

Goering JJ, Dugdale RC, Menzel DW. 1964. Cyclic diurnal variations in the uptake of ammonia and nitrate by photosynthetic organisms in the Sargasso Sea. *Limnology and Oceanography* 9(3):448-451. http://www.aslo.org/lo/toc/vol_9/issue_3/0448.pdf

Goldberg SJ, Carlson CA, Hansell DA, Nelson NB, Siegel DA. 2009. Temporal dynamics of dissolved combined neutral sugars and the quality of dissolved organic matter in the Northwestern Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 56(5):672-685. <http://dx.doi.org/10.1016/j.dsr.2008.12.013>

Goldman JC, Hansell DA, Dennett MR. 1992. Chemical characterization of three large oceanic diatoms: potential impact on water column chemistry. *Marine Ecology-Progress Series* 88(2-3):257-270. <http://www.int-res.com/articles/meps/88/m088p257.pdf>

Goldthwait SA, Steinberg DK. 2008. Elevated biomass of mesozooplankton and enhanced fecal pellet flux in cyclonic and mode-water eddies in the Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography* 55(10-13):1360-1377.

<http://dx.doi.org/10.1016/j.dsr2.2008.01.003>

Gordon DC, Jr., Wangersky PJ, Sheldon RW. 1979. Detailed observations on the distribution and composition of particulate organic material at two stations in the Sargasso Sea. *Deep-Sea Research Part a-Oceanographic Research Papers* 26(9A):1083-1092.

[http://dx.doi.org/10.1016/0198-0149\(79\)90049-9](http://dx.doi.org/10.1016/0198-0149(79)90049-9)

Gordon HR, Brown OB. 1972. A theoretical model of light scattering by Sargasso Sea particulates. *Limnology and Oceanography* 17(6):826-832.

http://www.aslo.org/lo/toc/vol_17/issue_6/0826.pdf

Gould WJ, Schmitz WJ, Jr., Wunsch C. 1974. Preliminary field results for a Mid-Ocean Dynamics Experiment (MODE-0). *Deep Sea Research and Oceanographic Abstracts* 21(11):911-931.

[http://dx.doi.org/10.1016/0011-7471\(74\)90025-4](http://dx.doi.org/10.1016/0011-7471(74)90025-4)

- Gregg MC, Sanford TB. 1980. Signatures of mixing from the Bermuda Slope, the Sargasso Sea and the Gulf Stream. *Journal of Physical Oceanography* 10(1):105-127. [http://dx.doi.org/10.1175/1520-0485\(1980\)010<0105:SOMFTB>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1980)010<0105:SOMFTB>2.0.CO;2)
- Grosso VAD. 1978. Optical transfer function measurements in the Sargasso Sea.
- Gruber N, Keeling CD. 1999. Seasonal carbon cycling in the Sargasso Sea near Bermuda. Berkeley: University of California Press.
- Gruber N, Keeling CD, Bates NR. 2002. Interannual variability in the North Atlantic Ocean carbon sink. *Science* 298(5602):2374-2378. <http://dx.doi.org/10.1126/science.1077077>
- Gruber N, Keeling CD, Stocker TF. 1998. Carbon-13 constraints on the seasonal inorganic carbon budget at the BATS site in the northwestern Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 45(4-5):673-717. [http://dx.doi.org/10.1016/S0967-0637\(97\)00098-8](http://dx.doi.org/10.1016/S0967-0637(97)00098-8)
- Gruber N, Sarmiento JL. 1997. Global patterns of marine nitrogen fixation and denitrification. *Global Biogeochemical Cycles* 11(2):235-266. <http://dx.doi.org/10.1029/97GB00077>
- Gundersen K, Heldal M, Norland S, Purdie DA, Knap AH. 2002. Elemental C, N, and P cell content of individual bacteria collected at the Bermuda Atlantic Time-Series Study (BATS) site. *Limnology and Oceanography* 47(5):1525-1530. <http://dx.doi.org/10.4319/lo.2002.47.5.1525>
- Gundersen K, Orcutt KM, Purdie DA, Michaels AF, Knap AH. 2001. Particulate organic carbon mass distribution at the Bermuda Atlantic Time-series Study (BATS) site. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1697-1718. [http://dx.doi.org/10.1016/S0967-0645\(00\)00156-9](http://dx.doi.org/10.1016/S0967-0645(00)00156-9)
- Guo C, Dunstan WM. 1995. Depth-dependent changes in chlorophyll fluorescence number at a Sargasso Sea station. *Marine Biology* 122(2):333-339. <http://dx.doi.org/10.1007/BF00348947>
- Gust G, Byrne RH, Bernstein RE, Betzer PR, Bowles W. 1992. Particles fluxes and moving fluids: experience from synchronous trap collection in the Sargasso sea. *Deep-Sea Research Part a-Oceanographic Research Papers* 39(7-8A):1071-1083. [http://dx.doi.org/10.1016/0198-0149\(92\)90057-Z](http://dx.doi.org/10.1016/0198-0149(92)90057-Z)
- Hacker SD, Madin LP. 1991. Why habitat architecture and color are important to shrimps living in pelagic Sargassum: use of camouflage and plant-part mimicry. *Marine Ecology-Progress Series* 70(2):143-155. <http://www.int-res.com/articles/meps/70/m070p143.pdf>
- Hagan DE, Olson DB, Schmitz JE, Vastano AC. 1978. A comparison of cyclonic ring structures in the northern Sargasso Sea. *Journal of Physical Oceanography* 8(6):997-1008. [http://dx.doi.org/10.1175/1520-0485\(1978\)008<0997:ACOCRS>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1978)008<0997:ACOCRS>2.0.CO;2)
- Haidar AT, Thierstein HR, Deuser WG. 2000. Calcareous phytoplankton standing stocks, fluxes and accumulation in Holocene sediments off Bermuda (N. Atlantic). *Deep-Sea Research Part II-Topical Studies in Oceanography* 47(9-11):1907-1938.

[http://dx.doi.org/10.1016/S0967-0645\(00\)00011-4](http://dx.doi.org/10.1016/S0967-0645(00)00011-4)

Hales B, Emerson S, Archer D. 1994. Respiration and dissolution in the sediments of the western North Atlantic: estimates from models of in situ microelectrode measurements of porewater oxygen and pH. *Deep-Sea Research Part I-Oceanographic Research Papers* 41(4):695-719.

[http://dx.doi.org/10.1016/0967-0637\(94\)90050-7](http://dx.doi.org/10.1016/0967-0637(94)90050-7)

Halliwell GR, Cornillon P, Byrne DA. 1991. Westward-propagating SST Anomaly Features in the Sargasso Sea, 1982–88. *Journal of Physical Oceanography* 21(5):635-649.

[http://dx.doi.org/10.1175/1520-0485\(1991\)021<0635:WPSAFI>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1991)021<0635:WPSAFI>2.0.CO;2)

Halliwell GR, Peng G, Olson DB. 1994. Stability of the Sargasso Sea Subtropical Frontal Zone. *Journal of Physical Oceanography* 24(6):1166-1183.

[http://dx.doi.org/10.1175/1520-0485\(1994\)024<1166:SOTSSS>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1994)024<1166:SOTSSS>2.0.CO;2)

Halliwell GR, Ro YJ, Cornillon P. 1991. Westward-propagating SST anomalies and baroclinic eddies in the Sargasso Sea. *Journal of Physical Oceanography* 21(11):1664-1680.

[http://dx.doi.org/10.1175/1520-0485\(1991\)021<1664:WPSAAB>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1991)021<1664:WPSAAB>2.0.CO;2)

Hallock ZR, Teague WJ, Broome RD. 1981. A deep, thick, isopycnal layer within an anticyclonic eddy. *Journal of Physical Oceanography* 11(12):1674-1677.

[http://dx.doi.org/10.1175/1520-0485\(1981\)011<1674:ADTILW>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1981)011<1674:ADTILW>2.0.CO;2)

Hamann TL. 1992. Frequency and size characteristics of Acantharian microaggregates and Trichodesmium aggregates in the Sargasso Sea.

Hamazaki T. 2002. Spatiotemporal prediction models of cetacean habitats in the mid-western North Atlantic Ocean (from Cape Hatteras, North Carolina, USA to Nova Scotia, Canada). *Marine Mammal Science* 18(4):920-939. <http://dx.doi.org/10.1111/j.1748-7692.2002.tb01082.x>

Hansell DA, Bates NR, Gundersen K. 1995. Mineralization of dissolved organic carbon in the Sargasso Sea. *Marine Chemistry* 51(3):201-212.

[http://dx.doi.org/10.1016/0304-4203\(95\)00063-1](http://dx.doi.org/10.1016/0304-4203(95)00063-1)

Hansell DA, Carlson CA. 1998. Net community production of dissolved organic carbon. *Global Biogeochemical Cycles* 12(3):443-453. <http://dx.doi.org/10.1029/98GB01928>

Hansell DA, Carlson CA. 2001. Biogeochemistry of total organic carbon and nitrogen in the Sargasso Sea: control by convective overturn. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1649-1667. [http://dx.doi.org/10.1016/S0967-0645\(00\)00153-3](http://dx.doi.org/10.1016/S0967-0645(00)00153-3)

Hanson AK, Sakamotoarnold CM, Huizenga DL, Kester DR. 1988. Copper complexation in Sargasso Sea and gulf stream warm-core ring waters. *Marine Chemistry* 23(1-2):181-203.

[http://dx.doi.org/10.1016/0304-4203\(88\)90031-X](http://dx.doi.org/10.1016/0304-4203(88)90031-X)

Hanson RB, Pomeroy LR, Murray RE. 1986. Microbial growth rates in a cold-core gulf stream eddy of the northwestern Sargasso Sea. *Deep-Sea Research Part a-Oceanographic Research Papers* 33(4):427-446. [http://dx.doi.org/10.1016/0198-0149\(86\)90125-1](http://dx.doi.org/10.1016/0198-0149(86)90125-1)

- Haro AJ. 1991. Thermal preferenda and behavior of Atlantic eels (genus *Anguilla*) in relation to their spawning migration. *Environmental Biology of Fishes* 31(2):171-184. <http://dx.doi.org/10.1007/BF00001018>
- Harrison DE, Heinmiller RH. 1983. Upper ocean thermal variability in the Sargasso Sea July 1977-July 1978: The POLYMODE XBT Program. *Journal of Physical Oceanography* 13(5):859-872. [http://dx.doi.org/10.1175/1520-0485\(1983\)013<0859:UOTVIT>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1983)013<0859:UOTVIT>2.0.CO;2)
- Harvey GR, Steinhaver WG, Miklas HP. 1974. Decline of PCB concentrations in North Atlantic surface water. *Nature* 252(5482):387-388. <http://dx.doi.org/10.1038/252387a0>
- Hasle GR. 1983. The marine, planktonic diatoms *Thalassiosira oceanica* sp.nov. and *T. partheneia*. *Journal of Phycology* 19(2):220-229. <http://dx.doi.org/10.1111/j.0022-3646.1983.00220.x>
- Hayes SP. 1975. The temperature and salinity fine structure of the Mediterranean Water in the Western Atlantic. *Deep Sea Research and Oceanographic Abstracts* 22(1):1-11. [http://dx.doi.org/10.1016/0011-7471\(75\)90013-3](http://dx.doi.org/10.1016/0011-7471(75)90013-3)
- Hecht T, Appelbaum S. 1982. Morphology and taxonomic significance of the otoliths of some bathypelagic Anguilloidei and Saccopharyngoidei from the Sargasso Sea. *Helgolander Meeresuntersuchungen* 35(3):301-308. <http://dx.doi.org/10.1007/BF02006138>
- Helmke P, Neuer S, Lomas MW, Conte M, Freudenthal T. 2010. Cross-basin differences in particulate organic carbon export and flux attenuation in the subtropical North Atlantic gyre. *Deep-Sea Research Part I-Oceanographic Research Papers* 57(2):213-227. <http://dx.doi.org/10.1016/j.dsr.2009.11.001>
- Hemleben C, Spindler M, Breitingen I, Deuser WG. 1985. Field and laboratory studies on the ontogeny and ecology of some globorotaliid species from the Sargasso Sea off Bermuda. *Journal of Foraminiferal Research* 15(4):254-272. <http://dx.doi.org/10.2113/gsfir.15.4.254>
- Hernes PJ, Benner R. 2006. Terrigenous organic matter sources and reactivity in the North Atlantic Ocean and a comparison to the Arctic and Pacific oceans. *Marine Chemistry* 100(1-2):66-79. <http://dx.doi.org/10.1016/j.marchem.2005.11.003>
- Hertzler-Musgrove S, Montoya JP. 1998. N₂-fixation contributions in the Sargasso Sea. *Abstracts of Papers of the American Chemical Society* 215:232-CHED.
- Hewson I, Moisaner PH, Achilles KM, Carlson CA, Jenkins BD, Mondragon EA, Morrison AE, Zehr JP. 2007. Characteristics of diazotrophs in surface to abyssopelagic waters of the Sargasso Sea. *Aquatic Microbial Ecology* 46(1):15-30. <http://dx.doi.org/10.3354/ame046015>
- Honjo S. 1978. Sedimentation of materials in the Sargasso Sea at a 5,367 m deep station. *Journal of Marine Research* 36(3):469-492.
- Huang S, Conte MH. 2009. Source/process apportionment of major and trace elements in sinking particles in the Sargasso Sea. *Geochimica Et Cosmochimica Acta* 73(1):65-90.

<http://dx.doi.org/10.1016/j.gca.2008.08.023>

Hulburt EM. 1962. Phytoplankton in the southwestern Sargasso Sea and North Equatorial Current, February 1961. *Limnology and Oceanography* 7(3):307-315.

http://www.aslo.org/lo/toc/vol_7/issue_3/0307.pdf

Hulburt EM. 1985. Format for phytoplankton productivity in Casco Bay, Maine, and in the southern Sargasso Sea. *Bulletin of Marine Science* 37(3):808-826.

<http://www.ingentaconnect.com/content/umrsmas/bullmar/1985/00000037/00000003/art00003>

Hunter WB. 1972. The metabolic expenditures of the American eel (*Anguilla Rostrata*) on its migration to the Sargasso Sea.

Hurtt GC, Armstrong RA. 1996. A pelagic ecosystem model calibrated with BATS data. *Deep-Sea Research Part II-Topical Studies in Oceanography* 43(2-3):653-683.

[http://dx.doi.org/10.1016/0967-0645\(96\)00007-0](http://dx.doi.org/10.1016/0967-0645(96)00007-0)

Hurtt GC, Armstrong RA. 1999. A pelagic ecosystem model calibrated with BATS and OWSI data. *Deep-Sea Research Part I-Oceanographic Research Papers* 46(1):27-61.

[http://dx.doi.org/10.1016/S0967-0637\(98\)00055-7](http://dx.doi.org/10.1016/S0967-0637(98)00055-7)

Hwang JS, Druffel ERM, Bauer JE. 2006. Incorporation of aged dissolved organic carbon (DOC) by oceanic particulate organic carbon (POC): An experimental approach using natural carbon isotopes. *Marine Chemistry* 98(2-4):315-322.

<http://dx.doi.org/10.1016/j.marchem.2005.10.008>

Istoshin YV. 1962. Formative area of "eighteen-degree" water in the Sargasso Sea. *Deep Sea Research and Oceanographic Abstracts* 9(7-10):384-390.

[http://dx.doi.org/10.1016/0011-7471\(62\)90019-0](http://dx.doi.org/10.1016/0011-7471(62)90019-0)

Ittekkot V, Deuser WG, Degens ET. 1984. Seasonality in the fluxes of sugars, amino acids, and amino sugars to the deep ocean: Sargasso Sea *Deep-Sea Research Part a-Oceanographic Research Papers* 31(9):1057-1069. [http://dx.doi.org/10.1016/0198-0149\(84\)90012-8](http://dx.doi.org/10.1016/0198-0149(84)90012-8)

Iturriaga R, Marra J. 1988. Temporal and spatial variability of chroococcoid cyanobacteria *Synechococcus* spp. specific growth rates and their contribution to primary production in the Sargasso Sea. *Marine Ecology-Progress Series* 44(2):175-181.

<http://www.int-res.com/articles/meps/44/m044p175.pdf>

Iturriaga R, Siegel DA. 1989. Microphotometric characterization of phytoplankton and detrital absorption properties in the Sargasso Sea. *Limnology and Oceanography* 34(8):1706-1726.

http://www.aslo.org/lo/toc/vol_34/issue_8/1706.pdf

Jahn AE, Backus RH. 1976. On the mesopelagic fish faunas of slope water, Gulf Stream, and northern Sargasso Sea. *Deep Sea Research and Oceanographic Abstracts* 23(3):223-234.

[http://dx.doi.org/10.1016/0011-7471\(76\)91326-7](http://dx.doi.org/10.1016/0011-7471(76)91326-7)

- Jakuba RW, Moffett JW, Dyhrman ST. 2008. Evidence for the linked biogeochemical cycling of zinc, cobalt, and phosphorus in the western North Atlantic Ocean. *Global Biogeochemical Cycles* 22(4):Gb4012. <http://dx.doi.org/10.1029/2007gb003119>
- Jasper JP, Deuser WG. 1993. Annual cycles of mass flux and isotopic composition of pteropod shells settling into the deep Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 40(4):653-669. [http://dx.doi.org/10.1016/0967-0637\(93\)90064-A](http://dx.doi.org/10.1016/0967-0637(93)90064-A)
- Jeandel C, Bishop JK, Zindler A. 1995. Exchange of neodymium and its isotopes between seawater and small and large particles in the Sargasso Sea. *Geochimica Et Cosmochimica Acta* 59(3):535-547. [http://dx.doi.org/10.1016/0016-7037\(94\)00367-U](http://dx.doi.org/10.1016/0016-7037(94)00367-U)
- Jenkins WJ. 1977. Tritium-helium dating in the Sargasso Sea: A measurement of oxygen utilization rates. *Science* 196(4287):291-292. <http://dx.doi.org/10.1126/science.196.4287.291>
- Jenkins WJ. 1980. Tritium and SUP-3 He in the Sargasso Sea. *Journal of Marine Research* 38(3):533-569.
- Jenkins WJ. 1982. On the climate of a subtropical ocean gyre: Decade timescale variations in water mass renewal in the Sargasso Sea. *Journal of Marine Research* 40:265-290.
- Jenkins WJ. 1991. Determination of isopycnal diffusivity in the Sargasso Sea. *Journal of Physical Oceanography* 21(7):1058-1061. [http://dx.doi.org/10.1175/1520-0485\(1991\)021<1058:DOIDIT>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1991)021<1058:DOIDIT>2.0.CO;2)
- Jenkins WJ, Doney SC. 2003. The subtropical nutrient spiral. *Global Biogeochemical Cycles* 17(4):1110. <http://dx.doi.org/10.1029/2003gb002085>
- Jenkins WJ, Goldman JC. 1985. Seasonal oxygen cycling and primary production in the Sargasso Sea. *Journal of Marine Research* 43(2):465-491. <http://dx.doi.org/10.1357/002224085788438702>
- Jenkins WJ, McGillicuddy DJ, Lott DE. 2008. The distributions of, and relationship between, He-3 and nitrate in eddies. *Deep-Sea Research Part II-Topical Studies in Oceanography* 55(10-13):1389-1397. <http://dx.doi.org/10.1016/j.dsr2.2008.02.006>
- Jiang SN, Dickey TD, Steinberg DK, Madin LP. 2007. Temporal variability of zooplankton biomass from ADCP backscatter time series data at the Bermuda Testbed Mooring site. *Deep-Sea Research Part I-Oceanographic Research Papers* 54(4):608-636. <http://dx.doi.org/10.1016/j.dsr.2006.12.011>
- Jickells T, Church T, Veron A, Arimoto R. 1994. Atmospheric inputs of manganese and aluminium to the Sargasso Sea and their relation to surface water concentrations. *Marine Chemistry* 46(3):283-292. [http://dx.doi.org/10.1016/0304-4203\(94\)90083-3](http://dx.doi.org/10.1016/0304-4203(94)90083-3)
- Jickells TD. 1999. The inputs of dust derived elements to the Sargasso Sea; a synthesis. *Marine Chemistry* 68(1-2):5-14. [http://dx.doi.org/10.1016/S0304-4203\(99\)00061-4](http://dx.doi.org/10.1016/S0304-4203(99)00061-4)

- Jickells TD, Boyd SS, Knap AH. 1988. Iodine cycling in the Sargasso Sea and the Bermuda inshore waters. *Marine Chemistry* 24(1):61-82. [http://dx.doi.org/10.1016/0304-4203\(88\)90006-0](http://dx.doi.org/10.1016/0304-4203(88)90006-0)
- Jickells TD, Burton JD. 1988. Cobalt, copper, manganese and nickel in the Sargasso Sea. *Marine Chemistry* 23(1-2):131-144. [http://dx.doi.org/10.1016/0304-4203\(88\)90027-8](http://dx.doi.org/10.1016/0304-4203(88)90027-8)
- Jickells TD, Deuser WG, Belostock RA. 1990. Temporal variations in the concentrations of some particulate elements in the surface waters of the Sargasso Sea and their relationship to deep-sea fluxes. *Marine Chemistry* 29(2-3):203-219. [http://dx.doi.org/10.1016/0304-4203\(90\)90014-4](http://dx.doi.org/10.1016/0304-4203(90)90014-4)
- Jickells TD, Deuser WG, Knap AH. 1984. The sedimentation rates of trace elements in the Sargasso Sea measured by sediment trap. *Deep-Sea Research Part a-Oceanographic Research Papers* 31(10):1169-1178. [http://dx.doi.org/10.1016/0198-0149\(84\)90056-6](http://dx.doi.org/10.1016/0198-0149(84)90056-6)
- Jickells TD, Dorling S, Deuser WG, Church TM, Arimoto R, Prospero JM. 1998. Air-borne dust fluxes to a deep water sediment trap in the Sargasso Sea. *Global Biogeochemical Cycles* 12(2):311-320. <http://dx.doi.org/10.1029/97GB03368>
- John HC. 1984. Horizontal and vertical-distribution of lancelet larvae and fish larvae in the Sargasso Sea during spring 1979. *Meeresforschung-Reports on Marine Research* 30(3):133-143.
- Johnson Z, Howd P. 2000. Marine photosynthetic performance forcing and periodicity for the Bermuda Atlantic Time Series, 1989-1995. *Deep-Sea Research Part I-Oceanographic Research Papers* 47(8):1485-1512. [http://dx.doi.org/10.1016/S0967-0637\(99\)00111-9](http://dx.doi.org/10.1016/S0967-0637(99)00111-9)
- Jones RD. 1991. Carbon monoxide and methane distribution and consumption in the photic zone of the Sargasso Sea. *Deep-Sea Research Part a-Oceanographic Research Papers* 38(6):625-635. [http://dx.doi.org/10.1016/0198-0149\(91\)90002-W](http://dx.doi.org/10.1016/0198-0149(91)90002-W)
- Juranek LW, Russell AD, Spero HJ. 2003. Seasonal oxygen and carbon isotope variability in euthecosomatous pteropods from the Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 50(2):231-245. [http://dx.doi.org/10.1016/s0967-0637\(02\)00164-4](http://dx.doi.org/10.1016/s0967-0637(02)00164-4)
- Kahler P, Oschlies A, Dietze H, Koeve W. 2010. Oxygen, carbon, and nutrients in the oligotrophic eastern subtropical North Atlantic. *Biogeosciences* 7(3):1143-1156. <http://dx.doi.org/10.5194/bg-7-1143-2010>
- Kalyuzhnaya MG, Nercessian O, Lapidus A, Chistoserdova L. 2005. Fishing for biodiversity: novel methanopterin-linked C-1 transfer genes deduced from the Sargasso Sea metagenome. *Environmental Microbiology* 7(12):1909-1916. <http://dx.doi.org/10.1111/j.1462-2920.2005.00798.x>
- Karl DM, Michaels AF. 1996. The Hawaiian ocean time-series (HOT) and Bermuda Atlantic time-series study (BATS) - Preface. *Deep-Sea Research Part II-Topical Studies in Oceanography* 43(2-3):127-128. [http://dx.doi.org/10.1016/S0967-0645\(96\)90000-4](http://dx.doi.org/10.1016/S0967-0645(96)90000-4)
- Katz EJ. 1973. Profile of an isopycnal surface in the main thermocline of the Sargasso Sea.

- Journal of Physical Oceanography 3(4):448-457.
[http://dx.doi.org/10.1175/1520-0485\(1973\)003<0448:POAISI>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1973)003<0448:POAISI>2.0.CO;2)
- Keigwin LD. 1996. The Little Ice Age and Medieval warm period in the Sargasso Sea. *Science* 274(5292):1504-1508. <http://dx.doi.org/10.1126/science.274.5292.1503>
- Keigwin LD. 1996. Sedimentary record yields several centuries of data - The Little Ice Age and Medieval Warm Period in the Sargasso Sea. *Oceanus* 39(2):16-18.
<http://www.whoi.edu/page.do?cid=3842&pid=12455&tid=282>
- Keigwin LD, Boyle EA. 1999. Surface and deep ocean variability in the northern Sargasso Sea during marine isotope stage 3. *Paleoceanography* 14(2):164-170.
<http://dx.doi.org/10.1029/1998PA900026>
- Keil RG, Kirchman DL. 1999. Utilization of dissolved protein and amino acids in the northern Sargasso Sea. *Aquatic Microbial Ecology* 18(3):293-300. <http://dx.doi.org/10.3354/ame018293>
- Keller CA, Ward-Geiger LI, Brooks WB, Slay CK, Taylor CR, Zoodsma BJ. 2006. North Atlantic right whale distribution in relation to sea-surface temperature in the southeastern United States calving grounds. *Marine Mammal Science* 22(2):426-445.
<http://dx.doi.org/10.1111/j.1748-7692.2006.00033.x>
- Keller NB. 1987. Some data on biomass variability of sargassum macrofauna in the Sargasso Sea. *Okeanologiya* 27(6):1003-1003.
- Kepkay PE, Harrison WG, Irwin B. 1990. Surface coagulation, microbial respiration and primary production in the Sargasso Sea. *Deep-Sea Research Part a-Oceanographic Research Papers* 37(1):145-155. [http://dx.doi.org/10.1016/0198-0149\(90\)90033-R](http://dx.doi.org/10.1016/0198-0149(90)90033-R)
- Kettle AJ, Bakker DCE, Haines K. 2008. Impact of the North Atlantic Oscillation on the trans-Atlantic migrations of the European eel (*Anguilla anguilla*). *Journal of Geophysical Research-Biogeosciences* 113(G3):G03004. <http://dx.doi.org/10.1029/2007jg000589>
- Kettle AJ, Haines K. 2006. How does the European eel (*Anguilla anguilla*) retain its population structure during its larval migration across the North Atlantic Ocean? *Canadian Journal of Fisheries and Aquatic Sciences* 63(1):90-106. <http://dx.doi.org/10.1139/f05-198>
- Kieber RJ, Cooper WJ, Willey JD, Avery GB. 2001. Hydrogen peroxide at the Bermuda Atlantic Time Series Station. Part 1: Temporal variability of atmospheric hydrogen peroxide and its influence on seawater concentrations. *Journal of Atmospheric Chemistry* 39(1):1-13.
<http://dx.doi.org/10.1016/j.marchem.2005.03.006>
- Kieber RJ, Willey JD, Avery GB. 2003. Temporal variability of rainwater iron speciation at the Bermuda Atlantic time series station. *Journal of Geophysical Research-Oceans* 108(C8):3277.
<http://dx.doi.org/10.1029/2001jc001031>
- Kim G, Alleman LY, Church TM. 1999. Atmospheric depositional fluxes of trace elements, Pb-210, and Be-7 to the Sargasso Sea. *Global Biogeochemical Cycles* 13(4):1183-1192.

<http://dx.doi.org/10.1029/1999GB900071>

Kim G, Church TM. 2001. Seasonal biogeochemical fluxes of Th-234 and Po-210 in the upper Sargasso Sea: Influence from atmospheric iron deposition. *Global Biogeochemical Cycles* 15(3):651-661. <http://dx.doi.org/10.1029/2000GB001337>

Kim G, Hussain N, Church TM. 2003. Tracing the advection of organic carbon into the subsurface Sargasso Sea using a Ra-228/Ra-226 tracer. *Geophysical Research Letters* 30(16):1874. <http://dx.doi.org/10.1029/2003gl017565>

Kinard WF, Atwood DK, Giese GS. 1974. Dissolved oxygen as evidence for 18°C Sargasso Sea Water in the eastern Caribbean Sea. *Deep Sea Research and Oceanographic Abstracts* 21(1):79-82. [http://dx.doi.org/10.1016/0011-7471\(74\)90021-7](http://dx.doi.org/10.1016/0011-7471(74)90021-7)

King LL, Wakeham SG. 1996. Phorbins: sterol ester formation by macrozooplankton in the Sargasso Sea. *Organic Geochemistry* 24(5):581-585. [http://dx.doi.org/10.1016/0146-6380\(96\)00073-3](http://dx.doi.org/10.1016/0146-6380(96)00073-3)

King LL, Wakeham SG, Hayes JM, Bates N. 1995. Alkenone isotopes as a proxy for dissolved CO₂ at the Bermuda Atlantic Time-Series station. *Abstracts of Papers of the American Chemical Society* 210:67-GEOC.

Kleckner RC, McCleave JD. 1988. The northern limit of spawning by Atlantic eels (*Anguilla* spp.) in the Sargasso Sea in relation to thermal fronts and surface water masses. *Journal of Marine Research* 46(3):647-667. <http://dx.doi.org/10.1357/002224088785113469>

Kleckner RC, McCleave JD, Wippelhauser GS. 1983. Spawning of American eel, *Anguilla rostrata*, relative to thermal fronts in the Sargasso Sea. *Environmental Biology of Fishes* 9(3-4):289-293. <http://dx.doi.org/10.1007/BF00692377>

Knap A, Jickells T, Pszenny A, Galloway J. 1986. Significance of atmospheric-derived fixed nitrogen on productivity of the Sargasso Sea. *Nature* 320(6058):158-160. <http://dx.doi.org/10.1038/320158a0>

Knap AH, Binkley KS, Deuser WG. 1986. Synthetic organic chemicals in the deep Sargasso Sea. *Nature* 319(6054):572-574. <http://dx.doi.org/10.1038/319572a0>

Knapp AN, Hastings MG, Sigman DM, Lipschultz F, Galloway JN. 2010. The flux and isotopic composition of reduced and total nitrogen in Bermuda rain. *Marine Chemistry* 120(1-4):83-89. <http://dx.doi.org/10.1016/j.marchem.2008.08.007>

Knapp AN, Sigman DM, Lipschultz F. 2005. N isotopic composition of dissolved organic nitrogen and nitrate at the Bermuda Atlantic time-series study site. *Global Biogeochemical Cycles* 19(1):Gb1018. <http://dx.doi.org/10.1029/2004gb002320>

Kohlmeyer J. 1971. Fungi from the Sargasso Sea. *Marine Biology* 8(4):344-350. <http://dx.doi.org/10.1007/BF00348012>

- Kort VG, Morozov EG. 1981. Synoptic Variability in the Ocean.
- Kracht R. 1982. On the geographic distribution and migration of 1-and 2-group eel larvae as studied during the 1979 Sargasso Sea Expedition. *Helgolander Meeresuntersuchungen* 35(3):321-327. <http://dx.doi.org/10.1007/BF02006140>
- Kracht R, Tesch FW. 1981. Progress Report on the Eel Expedition of R.V. "Anton Dohrn" and R.V. "Friedrich Heincke" to the Sargasso Sea 1979. *Environmental Biology of Fishes* 6(3/4):371-375. <http://dx.doi.org/10.1007/BF00005768>
- Krause JW, Lomas MW, Nelson DM. 2009. Biogenic silica at the Bermuda Atlantic Time-series Study site in the Sargasso Sea: Temporal changes and their inferred controls based on a 15-year record. *Global Biogeochemical Cycles* 23:Gb3004. <http://dx.doi.org/10.1029/2008gb003236>
- Krause JW, Nelson DM, Lomas MW. 2009. Biogeochemical responses to late-winter storms in the Sargasso Sea, II: Increased rates of biogenic silica production and export. *Deep-Sea Research Part I-Oceanographic Research Papers* 56(6):861-874. <http://dx.doi.org/10.1016/j.dsr.2009.01.002>
- Krause JW, Nelson DM, Lomas MW. 2010. Production, dissolution, accumulation, and potential export of biogenic silica in a Sargasso Sea mode-water eddy. *Limnology and Oceanography* 55(2):569-579. <http://dx.doi.org/10.4319/lo.2010.55.2.0569>
- Kulleberg G, Lundgren B, Malmberg SA, Kyaard K, Hoejerslev N. 1970. Inherent optical properties of the Sargasso Sea. Results from the DANA expedition January-April 1966. Technical Report NATO Sub-Committee for Oceanographic Research(48):11 p.
- Kullenberg G. 1968. Scattering of light by Sargasso Sea water. *Deep Sea Research and Oceanographic Abstracts* 15(4):423-424, IN5, 425-432. [http://dx.doi.org/10.1016/0011-7471\(68\)90050-8](http://dx.doi.org/10.1016/0011-7471(68)90050-8)
- Kullenberg G. 1970. Inherent optical properties of the Sargasso Sea. Copenhagen: Københavns universitet, Institut for fysisk oceanografi.
- LaCasce EO, Wooding CM, Beckerle JC, Woods Hole Oceanographic I. 1969. Sound velocity characteristics in the Sargasso Sea based on observations on cruise 89 of R/V Chain. Woods Hole, Mass.: Woods Hole Oceanographic Institution.
- Landolfi A, Oschlies A, Sanders R. 2008. Organic nutrients and excess nitrogen in the North Atlantic subtropical gyre. *Biogeosciences* 5(5):1199-1213. <http://dx.doi.org/10.5194/bgd-5-685-2008>
- Lapointe BE. 1986. Phosphorus-limited photosynthesis and growth of *Sargassum natans* and *Sargassum fluitans* (Phaeophyceae) in the western North Atlantic. *Deep-Sea Research Part a-Oceanographic Research Papers* 33(3):391-399. [http://dx.doi.org/10.1016/0198-0149\(86\)90099-3](http://dx.doi.org/10.1016/0198-0149(86)90099-3)
- Lapointe BE. 1995. A Comparison of Nutrient-Limited Productivity in *Sargassum natans* from

- Neritic vs. Oceanic Waters of the Western North Atlantic Ocean. *Limnology and Oceanography* 40(3):625-633. http://www.aslo.org/lo/toc/vol_40/issue_3/0625.pdf
- Larsson P, Hamrin S, Okla L. 1990. Fat content as a factor inducing migratory behavior in the eel (*Anguilla anguilla* L.) to the Sargasso Sea. *Naturwissenschaften* 77(10):488-490. <http://dx.doi.org/10.1007/BF01135929>
- Latz MI, Frank TM, Case JF. 1988. Spectral composition of bioluminescence of epipelagic organisms from the Sargasso Sea. *Marine Biology* 98(3):441-446. <http://dx.doi.org/10.1007/BF00391120>
- Latz MI, Frank TM, Case JF, Swift E, Bidigare RR. 1987. Bioluminescence of colonial radiolaria in the western Sargasso Sea. *Journal of Experimental Marine Biology and Ecology* 109(1):25-38. [http://dx.doi.org/10.1016/0022-0981\(87\)90183-3](http://dx.doi.org/10.1016/0022-0981(87)90183-3)
- Law KL, Moret-Ferguson S, Maximenko NA, Proskurowski G, Peacock EE, Hafner J, Reddy CM. 2010. Plastic Accumulation in the North Atlantic Subtropical Gyre. *Science* 329(5996):1185-1188. <http://dx.doi.org/10.1126/science.1192321>
- Le Clainche Y, Levasseur M, Vezina A, Dacey JWH, Saucier FJ. 2004. Behaviour of the ocean DMS(P) pools in the Sargasso Sea viewed in a coupled physical-biogeochemical ocean model. *Canadian Journal of Fisheries and Aquatic Sciences* 61(5):788-803. <http://dx.doi.org/10.1139/f04-027>
- Ledenev AV, Rozenberg LA, Ulanovskij IB. 1980. On saprophytic bacteria developing on different metals in the water column of the Atlantic Ocean (the Sargasso Sea). *Okeanologiya/Oceanology*(4):709-713.
- Ledwell JR, McGillicuddy DJ, Anderson LA. 2008. Nutrient flux into an intense deep chlorophyll layer in a mode-water eddy. *Deep-Sea Research Part II-Topical Studies in Oceanography* 55(10-13):1139-1160. <http://dx.doi.org/10.1016/j.dsr2.2008.02.005>
- Ledyard KM, Delong EF, Dacey JWH. 1993. Characterization of a DMSP-degrading bacterial isolate from the Sargasso Sea. *Archives of Microbiology* 160(4):312-318. <http://dx.doi.org/10.1007/BF00292083>
- Lee C, Bada JL. 1977. Dissolved amino acids in the equatorial Pacific, the Sargasso Sea, and Biscayne Bay. *Limnology and Oceanography* 22(3):502-510. http://www.aslo.org/lo/toc/vol_22/issue_3/0502.pdf
- Lee K, Choo YJ, Giovannoni SJ, Cho JC. 2007. *Ruegeria pelagia* sp nov., isolated from the Sargasso Sea, Atlantic ocean. *International Journal of Systematic and Evolutionary Microbiology* 57:1815-1818. <http://dx.doi.org/10.1099/ijs.0.65032-0>
- Leetmaa A. 1977. Effects of the winter of 1976-1977 on the Northwestern Sargasso Sea. *Science* 198(4313):188-189. <http://dx.doi.org/10.1126/science.198.4313.188>
- Lessard EJ, Murrell MC. 1996. Distribution, abundance and size composition of heterotrophic

dinoflagellates and ciliates in the Sargasso Sea near Bermuda. *Deep-Sea Research Part I-Oceanographic Research Papers* 43(7):1045-1065.

[http://dx.doi.org/10.1016/0967-0637\(96\)00052-0](http://dx.doi.org/10.1016/0967-0637(96)00052-0)

Lessard EJ, Murrell MC. 1998. Microzooplankton herbivory and phytoplankton growth in the northwestern Sargasso Sea. *Aquatic Microbial Ecology* 16(2):173-188.

<http://dx.doi.org/10.3354/ame016173>

Li QP, Hansell DA. 2008. Nutrient distributions in baroclinic eddies of the oligotrophic North Atlantic and inferred impacts on biology. *Deep-Sea Research Part II-Topical Studies in Oceanography* 55(10-13):1291-1299. <http://dx.doi.org/10.1016/j.dsr2.2008.01.009>

Li QP, Hansell DA, McGillicuddy DJ, Bates NR, Johnson RJ. 2008. Tracer-based assessment of the origin and biogeochemical transformation of a cyclonic eddy in the Sargasso Sea. *Journal of Geophysical Research-Oceans* 113(C10):C10006. <http://dx.doi.org/10.1029/2008jc004840>

Li WKW, Dickie PM, Irwin BD, Wood AM. 1992. Biomass of bacteria, cyanobacteria, prochlorophytes and photosynthetic eukaryotes in the Sargasso Sea. *Deep-Sea Research Part a-Oceanographic Research Papers* 39(3-4A):501-519.

[http://dx.doi.org/10.1016/0198-0149\(92\)90085-8](http://dx.doi.org/10.1016/0198-0149(92)90085-8)

Liebezeit G, Boelter M, Brown IF, Dawson R. 1980. Dissolved free amino-acids and carbohydrates at pycnocline boundaries in the Sargasso Sea and related microbial activity. *Oceanologica Acta* 3(3):357-362.

Lipschultz F. 2001. A time-series assessment of the nitrogen cycle at BATS. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1897-1924.

[http://dx.doi.org/10.1016/S0967-0645\(00\)00168-5](http://dx.doi.org/10.1016/S0967-0645(00)00168-5)

Lipschultz F, Bates NR, Carlson CA, Hansell DA. 2002. New production in the Sargasso Sea: History and current status. *Global Biogeochemical Cycles* 16(1):1001.

<http://dx.doi.org/10.1029/2000gb001319>

Lo WT, Biggs DC. 1996. Temporal variability in the night-time distribution of epipelagic siphonophores in the North Atlantic Ocean at Bermuda. *Journal of Plankton Research* 18(6):923-939. <http://dx.doi.org/10.1093/plankt/18.6.923>

Lohrenz SE, Knauer GA, Asper VL, Tuel M, Michaels AF, Knap AH. 1992. Seasonal variability in primary production and particle flux in the northwestern Sargasso Sea: U.S. JGOFS Bermuda Atlantic time-series study. *Deep-Sea Research Part a-Oceanographic Research Papers* 39(7-8A):1373-1391. [http://dx.doi.org/10.1016/0198-0149\(92\)90074-4](http://dx.doi.org/10.1016/0198-0149(92)90074-4)

Lomas MW, Bates NR. 2004. Potential controls on interannual partitioning of organic carbon during the winter/spring phytoplankton bloom at the Bermuda Atlantic Time-series Study (BATS) site. *Deep-Sea Research Part I-Oceanographic Research Papers* 51(11):1619-1636.

<http://dx.doi.org/10.1016/j.dsr.2004.06.007>

- Lomas MW, Burke AL, Lomas DA, Bell DW, Shen C, Dyhrman ST, Ammerman JW. 2010. Sargasso Sea phosphorus biogeochemistry: an important role for dissolved organic phosphorus (DOP). *Biogeosciences* 7(2):695-710. <http://dx.doi.org/10.5194/bg-7-695-2010>
- Lomas MW, Lipschultz F, Nelson DM, Krause JW, Bates NR. 2009. Biogeochemical responses to late-winter storms in the Sargasso Sea, I-Pulses of primary and new production. *Deep-Sea Research Part I-Oceanographic Research Papers* 56(6):843-860. <http://dx.doi.org/10.1016/j.dsr.2008.09.002>
- Lomas MW, Moran SB. 2011. Evidence for aggregation and export of cyanobacteria and nano-eukaryotes from the Sargasso Sea euphotic zone. *Biogeosciences* 8(1):203-216. <http://dx.doi.org/10.5194/bg-8-203-2011>
- Lomas MW, Roberts N, Lipschultz F, Krause JW, Nelson DM, Bates NR. 2009. Biogeochemical responses to late-winter storms in the Sargasso Sea. IV. Rapid succession of major phytoplankton groups. *Deep-Sea Research Part I-Oceanographic Research Papers* 56(6):892-908. <http://dx.doi.org/10.1016/j.dsr.2009.03.004>
- Lomas MW, Steinberg DK, Dickey T, Carlson CA, Nelson NB, Condon RH, Bates NR. 2010. Increased ocean carbon export in the Sargasso Sea linked to climate variability is countered by its enhanced mesopelagic attenuation. *Biogeosciences* 7(1):57-70. <http://dx.doi.org/10.5194/bg-7-57-2010>
- Lomas MW, Swain A, Shelton R, Ammerman JW. 2004. Taxonomic variability of phosphorus stress in Sargasso Sea phytoplankton. *Limnology and Oceanography* 49(6):2303-2310. <http://dx.doi.org/10.4319/lo.2004.49.6.2303>
- Luce DL, Rossby T. 2008. On the size and distribution of rings and coherent vortices in the Sargasso Sea. *Journal of Geophysical Research-Oceans* 113(C5):C05011. <http://dx.doi.org/10.1029/2007jc004171>
- Lukashev YF, Chernyakov AM. 1979. Variability of nitrate fields in relation to the passage of eddy formations. *Okeanologiya/Oceanology*(4):614-620.
- Lundgren B, Højerslev N. 1971. Daylight measurements in the Sargasso Sea; results from the iD'DANA' expedition, January-April 1966. Technical Report NATO Sub-Committee for Oceanographic Research 54:1-33.
- Lundgren B, Højerslev NK. 1971. Daylight measurements in the Sargasso Sea. Copenhagen: Københavns universitet, Institut for fysisk oceanografi.
- Luz B, Barkan E. 2009. Net and gross oxygen production from O-2/Ar, O-17/O-16 and O-18/O-16 ratios. *Aquatic Microbial Ecology* 56(2-3):133-145. <http://dx.doi.org/10.3354/ame01296>
- Macleod D. 2000. Review of the distribution of Mesoplodon species (order Cetacea, family Ziphiidae) in the North Atlantic. *Mammal Review* 30(1):1-8. <http://dx.doi.org/10.1046/j.1365-2907.2000.00057.x>

- Madin LP, Horgan EF, Steinberg DK. 2001. Zooplankton at the Bermuda Atlantic Time-series Study (BATS) station: diel, seasonal and interannual variation in biomass, 1994-1998. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):2063-2082. [http://dx.doi.org/10.1016/S0967-0645\(00\)00171-5](http://dx.doi.org/10.1016/S0967-0645(00)00171-5)
- Maes GE, Volckaert FAM. 2007. Challenges for genetic research in European eel management. *Ices Journal of Marine Science* 64(7):1463-1471. <http://dx.doi.org/10.1093/icesjms/fsm108>
- Mahaffey C, Williams RG, Wolff GA, Anderson WT. 2004. Physical supply of nitrogen to phytoplankton in the Atlantic Ocean. *Global Biogeochemical Cycles* 18(1):Gb1034. <http://dx.doi.org/10.1029/2003gb002129>
- Maiti K, Benitez-Nelson CR, Lomas MW, Krause JW. 2009. Biogeochemical responses to late-winter storms in the Sargasso Sea, III-Estimates of export production using Th-234:U-238 disequilibria and sediment traps. *Deep-Sea Research Part I-Oceanographic Research Papers* 56(6):875-891. <http://dx.doi.org/10.1016/j.dsr.2009.01.008>
- Malmstrom RR, Coe A, Kettler GC, Martiny AC, Frias-Lopez J, Zinser ER, Chisholm SW. 2010. Temporal dynamics of *Prochlorococcus* ecotypes in the Atlantic and Pacific oceans. *Isme Journal* 4(10):1252-1264. <http://dx.doi.org/10.1038/ismej.2010.60>
- Malone TC, Pike SE, Conley DJ. 1993. Transient variations in phytoplankton productivity at the JGOFS Bermuda time series station. *Deep-Sea Research Part I-Oceanographic Research Papers* 40(5):903-924. [http://dx.doi.org/10.1016/0967-0637\(93\)90080-M](http://dx.doi.org/10.1016/0967-0637(93)90080-M)
- Mann EL, Ahlgren N, Moffett JW, Chisholm SW. 2002. Copper toxicity and cyanobacteria ecology in the Sargasso Sea. *Limnology and Oceanography* 47(4):976-988. <http://dx.doi.org/10.4319/lo.2002.47.4.0976>
- Marchal O, Monfray P, Bates NR. 1996. Spring summer imbalance of dissolved inorganic carbon in the mixed layer of the northwestern Sargasso Sea. *Tellus Series B-Chemical and Physical Meteorology* 48(1):115-134. <http://dx.doi.org/10.1034/j.1600-0889.1996.00011.x>
- Marmorino GO, Dugan JP, Evans TE. 1986. Horizontal Variability of Microstructure in the Vicinity of a Sargasso Sea Front. *Journal of Physical Oceanography* 16(5):967-980. [http://dx.doi.org/10.1175/1520-0485\(1986\)016<0967:HVOMIT>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1986)016<0967:HVOMIT>2.0.CO;2)
- Marra J, Dickey T, Chamberlin WS, Ho C, Granata T, Kiefer DA, Langdon C, Smith R, Baker K, Bidigare R et al. . 1992. Estimation of seasonal primary production from moored optical sensors in the Sargasso Sea. *Journal of Geophysical Research-Oceans* 97(C5):7399-7412. <http://dx.doi.org/10.1029/92JC00408>
- Marra J, Dickey T, Chamberlin WS, Ho C, Granata T, Kiefer DA, Langdon C, Smith R, Baker K, Bidigare R et al. . 1993. Correction to "Estimation of Seasonal Primary Production From Moored Optical Sensors in the Sargasso Sea" by John Marra et al. . *Journal of Geophysical Research-Oceans* 98(C9):16589-16589. <http://dx.doi.org/10.1029/93JC02065>

- Marshall HG. 1966. Observations on the vertical distribution of coccolithophores in the northwestern Sargasso Sea. *Limnology and Oceanography* 11(3):432-435. http://www.aslo.org/lo/toc/vol_11/issue_3/0432.pdf
- Marshall HG. 1968. Coccolithophores in the northwest Sargasso Sea. *Limnology and Oceanography* 13(2):370-376. http://www.aslo.org/lo/toc/vol_13/issue_2/0370.pdf
- Martin AP, Pondaven P. 2006. New primary production and nitrification in the western subtropical North Atlantic: A modeling study. *Global Biogeochemical Cycles* 20(4):Gb4014. <http://dx.doi.org/10.1029/2005gb002608>
- Martin J, Daverat F, Pecheyran C, Als TD, Feunteun E, Reveillac E. 2010. An otolith microchemistry study of possible relationships between the origins of leptocephali of European eels in the Sargasso Sea and the continental destinations and relative migration success of glass eels. *Ecology of Freshwater Fish* 19(4):627-637. <http://dx.doi.org/10.1111/j.1600-0633.2010.00444.x>
- Mather RS. 1979. Remote sensing of surface ocean circulation with satellite altimetry. *Science* 205(4401):11-17. <http://dx.doi.org/10.1126/science.205.4401.11>
- Mather RS, Coleman R, Hirsch B. 1980. Temporal variations in regional models of the Sargasso Sea from GEOS-3 altimetry. *Journal of Physical Oceanography* 10(2):171-185. [http://dx.doi.org/10.1175/1520-0485\(1980\)010<0171:TVIRMO>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1980)010<0171:TVIRMO>2.0.CO;2)
- Mattern JP, Dowd M, Fennel K. 2010. Sequential data assimilation applied to a physical-biological model for the Bermuda Atlantic time series station. *Journal of Marine Systems* 79(1-2):144-156. <http://dx.doi.org/10.1016/j.jmarsys.2009.08.004>
- McCartney MS. 1980. Thin water mass structure in the Sargasso Sea. *Gulfstream* 6(6):3-7.
- McCartney MS, Worthington LV, Schmitz WJ, Jr. 1978. Large cyclonic rings from the northeast Sargasso Sea. *Journal of Geophysical Research-Oceans* 83(C2):901-914. <http://dx.doi.org/10.1029/JC083iC02p00901>
- McCleave JD. 2008. Contrasts between spawning times of *Anguilla* species estimated from larval sampling at sea and from otolith analysis of recruiting glass eels. *Marine Biology* 155(3):249-262. <http://dx.doi.org/10.1007/s00227-008-1026-8>
- McCleave JD, Kleckner RC. 1987. Distribution of Leptocephali of the Catadromous *Anguilla* Species in the Western Sargasso Sea in Relation to Water Circulation and Migration. *Bulletin of Marine Science* 41(3):789-806. <http://www.ingentaconnect.com/content/umrsmas/bullmar/1987/00000041/00000003/art00002>
- McCleave JD, Miller MJ. 1994. Spawning of *Conger oceanicus* and *Conger triporiceps* (Congridae) in the Sargasso Sea and subsequent distribution of leptocephali. *Environmental Biology of Fishes* 39(4):339-355. <http://dx.doi.org/10.1007/BF00004803>

McDonald AE, Vanlerberghe GC. 2005. Alternative oxidase and plastoquinol terminal oxidase in marine prokaryotes of the Sargasso Sea. *Gene* 349:15-24.

<http://dx.doi.org/10.1016/j.gene.2004.12.049>

McDuffee K, Druffel ERM. 2007. Daily variability of dissolved inorganic radiocarbon in Sargasso Sea surface water. *Marine Chemistry* 106(3-4):510-515.

<http://dx.doi.org/10.1016/j.marchem.2007.05.003>

McGillicuddy DJ, Anderson LA, Bates NR, Bibby T, Buesseler KO, Carlson CA, Davis CS, Ewart C, Falkowski PG, Goldthwait SA et al. . 2007. Eddy/wind interactions stimulate extraordinary mid-ocean plankton blooms. *Science* 316(5827):1021-1026.

<http://dx.doi.org/10.1126/science.1136256>

McGillicuddy DJ, Johnson R, Siegel DA, Michaels AF, Bates NR, Knap AH. 1999. Mesoscale variations of biogeochemical properties in the Sargasso Sea. *Journal of Geophysical Research-Oceans* 104(C6):13381-13394. <http://dx.doi.org/10.1029/1999JC900021>

McGillicuddy DJ, Kosnyrev VK. 2001. Dynamical interpolation of mesoscale flows in the TOPEX/poseidon diamond surrounding the US Joint Global Ocean Flux Study Bermuda Atlantic Time-Series Study site. *Journal of Geophysical Research-Oceans* 106(C8):16641-16656.

<http://dx.doi.org/10.1029/2000JC000363>

McGillicuddy DJ, Kosnyrev VK, Ryan JP, Yoder JA. 2001. Covariation of mesoscale ocean color and sea-surface temperature patterns in the Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1823-1836.

[http://dx.doi.org/10.1016/S0967-0645\(00\)00164-8](http://dx.doi.org/10.1016/S0967-0645(00)00164-8)

McGillicuddy DJ, Robinson AR. 1997. Eddy-induced nutrient supply and new production in the Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 44(8):1427-1450.

[http://dx.doi.org/10.1016/S0967-0637\(97\)00024-1](http://dx.doi.org/10.1016/S0967-0637(97)00024-1)

McGillicuddy DJ, Robinson AR, Siegel DA, Jannasch HW, Johnson R, Dickey T, McNeil J, Michaels AF, Knap AH. 1998. Influence of mesoscale eddies on new production in the Sargasso Sea. *Nature* 394(6690):263-266. <http://dx.doi.org/10.1038/28367>

McNeil JD, Jannasch HW, Dickey T, McGillicuddy D, Brzezinski M, Sakamoto CM. 1999. New chemical, bio-optical and physical observations of upper ocean response to the passage of a mesoscale eddy off Bermuda. *Journal of Geophysical Research-Oceans* 104(C7):15537-15548.

<http://dx.doi.org/10.1029/1999JC900137>

Menard Y. 1981. Study of the Variability of the Dynamic Topography of the Oceans West of the Mid-Atlantic Ridge Between 30 degree N and 55 degree N Latitude. *Annales de Geophysique* 37(1):99-106.

Menzel DW, Hulbert EM, Tyther JH. 1963. The effects of enriching Sargasso Sea water on the production and species composition of the phytoplankton. *Deep Sea Research and Oceanographic Abstracts* 10(3):209-219. [http://dx.doi.org/10.1016/0011-7471\(63\)90357-7](http://dx.doi.org/10.1016/0011-7471(63)90357-7)

- Menzel DW, Rytber JH. 1961. Zooplankton in the Sargasso Sea off Bermuda and its relation to organic production. *Journal Du Conseil Pour L'Exploration De La Mer* 26(3):250-258. <http://dx.doi.org/10.1093/icesjms/26.3.250>
- Menzel DW, Spaeth JP. 1962. Occurrence of ammonia in Sargasso Sea waters and in rain water at Bermuda. *Limnology and Oceanography* 7(2):159-162. http://www.aslo.org/lo/toc/vol_7/issue_2/0159.pdf
- Menzel DW, Spaeth JP. 1962. Occurrence of iron in the Sargasso Sea off Bermuda. *Limnology and Oceanography* 7(2):155-158. http://www.aslo.org/lo/toc/vol_7/issue_2/0155.pdf
- Menzel DW, Spaeth JP. 1962. Occurrence of vitamin B sub(12) in the Sargasso Sea. *Limnology and Oceanography* 7(2):151-154. http://www.aslo.org/lo/toc/vol_7/issue_2/0151.pdf
- Meyer J. 2004. Miraculous catch of iron-sulfur protein sequences in the Sargasso Sea. *Febs Letters* 570(1-3):1-6. <http://dx.doi.org/10.1016/j.febslet.2004.06.030>
- Michaels AF, Bates NR, Buesseler KO, Carlson CA, Knap AH. 1994. Carbon-cycle imbalances in the Sargasso Sea. *Nature* 372(6506):537-540. <http://dx.doi.org/10.1038/372537a0>
- Michaels AF, Knap AH. 1996. Overview of the US JGOFS Bermuda Atlantic Time-series Study and the Hydrostation S program. *Deep-Sea Research Part II-Topical Studies in Oceanography* 43(2-3):157-198. [http://dx.doi.org/10.1016/S0967-0645\(00\)00148-X](http://dx.doi.org/10.1016/S0967-0645(00)00148-X)
- Michaels AF, Knap AH, Dow RL, Gundersen K, Johnson RJ, Sorensen J, Close A, Knauer GA, Lohrenz SE, Asper VA et al. . 1994. Seasonal patterns of ocean biogeochemistry at the U.S. JGOFS Bermuda Atlantic time-series study site. *Deep-Sea Research Part I-Oceanographic Research Papers* 41(7):1013-1038. [http://dx.doi.org/10.1016/0967-0637\(94\)90016-7](http://dx.doi.org/10.1016/0967-0637(94)90016-7)
- Michaels AF, Olson D, Sarmiento JL, Ammerman JW, Fanning K, Jahnke R, Knap AH, Lipschultz F, Prospero JM. 1996. Inputs, losses and transformations of nitrogen and phosphorus in the pelagic North Atlantic Ocean. *Biogeochemistry* 35(1):181-226. <http://dx.doi.org/10.1007/BF02179827>
- Michaels AF, Siegel DA, Johnson RJ, Knap AH, Galloway JN. 1993. Episodic inputs of atmospheric nitrogen to the Sargasso Sea: Contributions to new production and phytoplankton blooms. *Global Biogeochemical Cycles* 7(2):339-351. <http://dx.doi.org/10.1029/93GB00178>
- Mied RP, Lindemann GJ. 1980. Modeling of large Gulf Stream rings in the northeast Sargasso Sea.
- Mied RP, Shen CY, Trump CL, Lindemann GJ. 1986. Internal-Inertial Waves in a Sargasso Sea Front. *Journal of Physical Oceanography* 16(11):1751-1762. [http://dx.doi.org/10.1175/1520-0485\(1986\)016<1751:IIWIAS>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1986)016<1751:IIWIAS>2.0.CO;2)
- Mikryukov AV, Popov OE. 2008. Penetration of sound into the cold eddy of the Sargasso Sea. *Acoustical Physics* 54(1):65-70. <http://dx.doi.org/10.1134/s1063771008010107>

- Miller MJ. 1995. Species assemblages of leptocephali in the Sargasso Sea and Florida Current. *Marine Ecology-Progress Series* 121(1-3):11-26. <http://dx.doi.org/10.3354/meps121011>
- Miller MJ. 2002. The distribution and ecology of *Ariosoma balearicum* (Congridae) leptocephali in the western North Atlantic. *Environmental Biology of Fishes* 63(3):235-252. <http://dx.doi.org/10.1023/A:1014311429809>
- Miller MJ, McCleave JD. 1994. Species assemblages of leptocephali in the Subtropical Convergence Zone of the Sargasso Sea. *Journal of Marine Research* 52(4):743-772. <http://dx.doi.org/10.1357/0022240943076948>
- Miller MJ, McCleave JD. 2007. Species assemblages of leptocephali in the southwestern Sargasso Sea. *Marine Ecology-Progress Series* 344:197-212. <http://dx.doi.org/10.3354/meps06923>
- Miller WL, Kester DR. 1994. Peroxide variations in the Sargasso Sea. *Marine Chemistry* 48(1):17-29. [http://dx.doi.org/10.1016/0304-4203\(94\)90059-0](http://dx.doi.org/10.1016/0304-4203(94)90059-0)
- Milliman JD. 1975. Dissolution of aragonite, Mg-calcite, and calcite in the North Atlantic Ocean. *Geology* 3(8):461-462. [http://dx.doi.org/10.1130/0091-7613\(1975\)3<461:doamac>2.0.co;2](http://dx.doi.org/10.1130/0091-7613(1975)3<461:doamac>2.0.co;2)
- Mirimin L, Westgate A, Rogan E, Rosel P, Read A, Coughlan J, Cross T. 2009. Population structure of short-beaked common dolphins (*Delphinus delphis*) in the North Atlantic Ocean as revealed by mitochondrial and nuclear genetic markers. *Marine Biology* 156(5):821-834. <http://dx.doi.org/10.1007/s00227-008-1120-y>
- Moffett JW. 1995. Temporal and Spatial Variability of Copper Complexation by Strong Chelators in the Sargasso-Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 42(8):1273-1295. [http://dx.doi.org/10.1016/0967-0637\(95\)00060-J](http://dx.doi.org/10.1016/0967-0637(95)00060-J)
- Moffett JW. 1997. The importance of microbial Mn oxidation in the upper ocean: a comparison of the Sargasso Sea and equatorial Pacific. *Deep-Sea Research Part I-Oceanographic Research Papers* 44(8):1277-1291. [http://dx.doi.org/10.1016/S0967-0637\(97\)00032-0](http://dx.doi.org/10.1016/S0967-0637(97)00032-0)
- Moffett JW, Zika RG, Brand LE. 1990. Distribution and potential sources and sinks of copper chelators in the Sargasso Sea. *Deep-Sea Research Part a-Oceanographic Research Papers* 37(1):27-36. [http://dx.doi.org/10.1016/0198-0149\(90\)90027-S](http://dx.doi.org/10.1016/0198-0149(90)90027-S)
- Mongin M, Nelson DM, Pondaven P, Brzezinski MA, Treguer P. 2003. Simulation of upper-ocean biogeochemistry with a flexible-composition phytoplankton model: C, N and Si cycling in the western Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 50(12):1445-1480. <http://dx.doi.org/10.1016/j.dsr.2003.08.003>
- Montoya JP, Carpenter EJ, Capone DG. 2002. Nitrogen fixation and nitrogen isotope abundances in zooplankton of the oligotrophic North Atlantic. *Limnology and Oceanography* 47(6):1617-1628. <http://dx.doi.org/10.4319/lo.2002.47.6.1617>
- Moore CM, Mills MM, Langlois R, Milne A, Achterberg EP, La Roche J, Geider RJ. 2008. Relative

influence of nitrogen and phosphorus availability on phytoplankton physiology and productivity in the oligotrophic sub-tropical North Atlantic Ocean. *Limnology and Oceanography* 53(1):291-305. <http://dx.doi.org/10.4319/lo.2008.53.1.0291>

Mordvinov YE. 1980. Characteristics of the Bird Fauna of the Southwestern Sargasso Sea in April - June 1978. *Ehkologiya morya*(4):62-65.

Morris BF, Butler JN. 1973. Petroleum residues in the Sargasso Sea and on Bermuda beaches. Prevention and control of oil spills. Proceedings of joint conference on prevention and control of oil spills. pp. 521-572.

Morris BF, Schroeder EH, Bermuda Biological Station for R. 1973. Hydrographic observations in the Sargasso Sea off Bermuda, May, 1967-February, 1973, V. St. George's West, Bermuda: Bermuda Biological Station for Research.

Morris RM, Vergin KL, Cho JC, Rappe MS, Carlson CA, Giovannoni SJ. 2005. Temporal and spatial response of bacterioplankton lineages to annual convective overturn at the Bermuda Atlantic Time-series Study site. *Limnology and Oceanography* 50(5):1687-1696. <http://dx.doi.org/10.4319/lo.2005.50.5.1687>

Morrison JR, Nelson NB. 2004. Seasonal cycle of phytoplankton UV absorption at the Bermuda Atlantic Time-series Study (BATS) site. *Limnology and Oceanography* 49(1):215-224. <http://dx.doi.org/10.4319/lo.2004.49.1.0215>

Mourino-Carballido B. 2009. Eddy-driven pulses of respiration in the Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 56(8):1242-1250. <http://dx.doi.org/10.1016/j.dsr.2009.03.001>

Mourino-Carballido B, Anderson LA. 2009. Net community production of oxygen derived from in vitro and in situ 1-D modeling techniques in a cyclonic mesoscale eddy in the Sargasso Sea. *Biogeosciences* 6(8):1799-1810. <http://dx.doi.org/10.5194/bgd-6-3237-2009>

Mourino-Carballido B, McGillicuddy DJ. 2006. Mesoscale variability in the metabolic balance of the Sargasso Sea. *Limnology and Oceanography* 51(6):2675-2689. <http://dx.doi.org/10.4319/lo.2006.51.6.2675>

Mullin KD, Fulling GL. 2003. Abundance of cetaceans in the southern US North Atlantic Ocean during summer 1998. *Fishery Bulletin* 101(3):603-613. <http://fishbull.noaa.gov/1013/11mullin.pdf>

Munk P, Hansen MM, Maes GE, Nielsen TG, Castonguay M, Riemann L, Sparholt H, Als TD, Aarestrup K, Andersen NG et al. . 2010. Oceanic fronts in the Sargasso Sea control the early life and drift of Atlantic eels. *Proceedings of the Royal Society B-Biological Sciences* 277(1700):3593-3599. <http://dx.doi.org/10.1098/rspb.2010.0900>

Nelepo BA. 1983. Experimental investigations under the international Polymode program : results of the 16th cruise of R/V Akademik Vernadskii. New Delhi: Published for the

International Decade of Ocean Exploration, National Science Foundation, by Amerind Pub. Co.

Nelson DM, Brzezinski MA. 1997. Diatom growth and productivity in an oligotrophic midocean gyre: A 3-yr record from the Sargasso Sea near Bermuda. *Limnology and Oceanography* 42(3):473-486. http://www.aslo.org/lo/toc/vol_42/issue_3/0473.pdf

Nelson NB. 1998. Spatial and temporal extent of sea surface temperature modifications by hurricanes in the Sargasso Sea during the 1995 season. *Monthly Weather Review* 126(5):1364-1368. [http://dx.doi.org/10.1175/1520-0493\(1998\)126<1364:SATEOS>2.0.CO;2](http://dx.doi.org/10.1175/1520-0493(1998)126<1364:SATEOS>2.0.CO;2)

Nelson NB, Bates NR, Siegel DA, Michaels AF. 2001. Spatial variability of the CO₂ sink in the Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1801-1821. [http://dx.doi.org/10.1016/S0967-0645\(00\)00162-4](http://dx.doi.org/10.1016/S0967-0645(00)00162-4)

Nelson NB, Carlson CA, Steinberg DK. 2004. Production of chromophoric dissolved organic matter by Sargasso Sea microbes. *Marine Chemistry* 89(1-4):273-287. <http://dx.doi.org/10.1016/j.marchem.2004.02.017>

Nelson NB, Siegel DA, Michaels AF. 1998. Seasonal dynamics of colored dissolved material in the Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 45(6):931-957. [http://dx.doi.org/10.1016/S0967-0637\(97\)00106-4](http://dx.doi.org/10.1016/S0967-0637(97)00106-4)

Nelson NB, Siegel DA, Yoder JA. 2004. The spring bloom in the northwestern Sargasso Sea: spatial extent and relationship with winter mixing. *Deep-Sea Research Part II-Topical Studies in Oceanography* 51(10-11):987-1000. <http://dx.doi.org/10.1016/j.dsr2.2004.02.001>

Nemirovskaya IA, Nesterova MP. 1981. Oil Pollution of the Sargasso Sea Surface Water. *Okeanologiya* 21(3):482-488.

Neveux J, Vaultot D, Courties C, Fukai E. 1989. Green photosynthetic bacteria associated with the deep chlorophyll maximum of the Sargasso Sea. *Comptes Rendus De L Academie Des Sciences Serie III-Sciences De La Vie-Life Sciences* 308(1):9-14.

Niermann U. 1986. Distribution of *Sargassum natans* and some of its epibionts in the Sargasso Sea. *Helgolander Meeresuntersuchungen* 40(4):343-353. <http://dx.doi.org/10.1007/BF01983817>

Not F, Gausling R, Azam F, Heidelberg JF, Worden AZ. 2007. Vertical distribution of picoeukaryotic diversity in the Sargasso Sea. *Environmental Microbiology* 9(5):1233-1252. <http://dx.doi.org/10.1111/j.1462-2920.2007.01247.x>

Obernosterer I, Kawasaki N, Benner R. 2003. P-limitation of respiration in the Sargasso Sea and uncoupling of bacteria from P-regeneration in size-fractionation experiments. *Aquatic Microbial Ecology* 32(3):229-237. <http://dx.doi.org/10.3354/ame032229>

Oh HM, Kang I, Ferriera S, Giovannoni SJ, Cho JC. 2010. Complete Genome Sequence of *Croceibacter atlanticus* HTCC2559(T). *Journal of Bacteriology* 192(18):4796-4797. <http://dx.doi.org/10.1128/jb.00733-10>

Ondercin DG. 1989. The spatial characterization of bio-optics in the Sargasso Sea. *Johns Hopkins APL Technical Digest* 10(1):45-55.

Ono S, Ennyu A, Najjar RG, Bates NR. 2001. Shallow remineralization in the Sargasso Sea estimated from seasonal variations in oxygen, dissolved inorganic carbon and nitrate. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1567-1582.
[http://dx.doi.org/10.1016/S0967-0645\(00\)00154-5](http://dx.doi.org/10.1016/S0967-0645(00)00154-5)

Orchard ED, Ammerman JW, Lomas MW, Dyhrman ST. 2010. Dissolved inorganic and organic phosphorus uptake in *Trichodesmium* and the microbial community: The importance of phosphorus ester in the Sargasso Sea. *Limnology and Oceanography* 55(3):1390-1399.
<http://dx.doi.org/10.4319/lo.2010.55.3.1390>

Orchard ED, Benitez-Nelson CR, Pellechia PJ, Lomas MW, Dyhrman ST. 2010. Polyphosphate in *Trichodesmium* from the low-phosphorus Sargasso Sea. *Limnology and Oceanography* 55(5):2161-2169. <http://dx.doi.org/10.4319/lo.2010.55.5.2161>

Orcutt KM, Lipschultz F, Gundersen K, Arimoto R, Michaels AF, Knap AH, Gallon JR. 2001. A seasonal study of the significance of N-2 fixation by *Trichodesmium* spp. at the Bermuda Atlantic Time-series Study (BATS) site. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1583-1608. [http://dx.doi.org/10.1016/S0967-0645\(00\)00157-0](http://dx.doi.org/10.1016/S0967-0645(00)00157-0)

Orikasa C, Hyodo S, Urano A. 1992. Immunohistochemical Study of Growth Hormone and Prolactin Cells in the Pituitaries of Anguilliform Leptocephali Captured in the Atlantic Sargasso Sea. *Nippon Suisan Gakkaishi* 58(9):1723-1727.
http://www.journalarchive.jst.go.jp/english/jnlabstract_en.php?cdjournal=suisan1932&cdvol=58&noissue=9&startpage=1723

Orndorff SA, Colwell RR. 1980. Distribution and identification of luminous bacteria from the Sargasso Sea. *Applied and Environmental Microbiology* 39(5):983-987.
<http://aem.asm.org/cgi/content/abstract/39/5/983>

Ortner PB, Wiebe PH, Haury L, Boyd S. 1978. Variability in zooplankton biomass distribution in the Northern Sargasso Sea: the contribution of Gulf Stream cold core rings. *Fishery Bulletin* 76(2):323-334. <http://fishbull.noaa.gov/76-2/ortner.pdf>

Oschlies A, Garcon V. 1999. An eddy-permitting coupled physical-biological model of the North Atlantic - 1. Sensitivity to advection numerics and mixed layer physics. *Global Biogeochemical Cycles* 13(1):135-160. <http://dx.doi.org/10.1029/98GB02811>

Oschlies A, Koeve W, Garcon V. 2000. An eddy-permitting coupled physical-biological model of the North Atlantic 2. Ecosystem dynamics and comparison with satellite and JGOFS local studies data. *Global Biogeochemical Cycles* 14(1):499-523. <http://dx.doi.org/10.1029/1999GB900080>

Paerl HW, Willey JD, Go M, Peierls BL, Pinckney JL, Fogel ML. 1999. Rainfall stimulation of primary production in western Atlantic Ocean waters: roles of different nitrogen sources and co-limiting nutrients. *Marine Ecology-Progress Series* 176:205-214.

<http://dx.doi.org/10.3354/meps176205>

Palenik B, Morel FMM. 1988. Dark production of H₂O₂ in the Sargasso Sea. *Limnology and Oceanography* 33(6):1606-1611. http://www.aslo.org/lo/toc/vol_33/issue_6pt2/1606.pdf

Parker CE. 1971. Gulf stream rings in the Sargasso Sea. *Deep Sea Research and Oceanographic Abstracts* 18(10):981-993. [http://dx.doi.org/10.1016/0011-7471\(71\)90003-9](http://dx.doi.org/10.1016/0011-7471(71)90003-9)

Phillips HE, Joyce TM. 2007. Bermuda's tale of two time series: Hydrostation S and BATS. *Journal of Physical Oceanography* 37(3):554-571. <http://dx.doi.org/10.1175/jpo2997.1>

Piganeau G, Desdevises Y, Derelle E, Moreau H. 2008. Picoeukaryotic sequences in the Sargasso Sea metagenome. *Genome Biology* 9(1):R5. <http://dx.doi.org/10.1186/gb-2008-9-1-r5>

Piganeau G, Moreau H. 2007. Screening the Sargasso Sea metagenome for data to investigate genome evolution in *Ostreococcus* (Prasinophyceae, Chlorophyta). *Gene* 406(1-2):184-190. <http://dx.doi.org/10.1016/j.gene.2007.09.015>

Platt T, Sathyendranath S, Ulloa O, Harrison WG, Hoepffner N, Goes J. 1992. Nutrient control of phytoplankton photosynthesis in the Western North Atlantic. *Nature* 356(6366):229-231. <http://dx.doi.org/10.1038/356229a0>

Pochapsky TE. 1976. Vertical structure of currents and deep temperatures in the western Sargasso Sea. *Journal of Physical Oceanography* 6(1):45-56. [http://dx.doi.org/10.1175/1520-0485\(1976\)006<0045:VSOCAD>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1976)006<0045:VSOCAD>2.0.CO;2)

Post A, Tesch FW. 1982. Midwater trawl catches of adolescent and adult anguilliform fishes during the Sargasso Sea Eel Expedition 1979. *Helgolander Meeresuntersuchungen* 35(3):341-356. <http://dx.doi.org/10.1007/BF02006142>

Prezelin BB, Glover HE. 1991. Variability in time/space estimates of phytoplankton, biomass and productivity in the Sargasso Sea. *Journal of Plankton Research* 13:S45-S67. <http://plankt.oxfordjournals.org/content/13/supp1/45.abstract>

Prezelin BB, Glover HE, Hoven BV, Steinberg D, Matlick HA, Schofield O, Nelson N, Wyman M, Campbell L. 1989. Blue-green light effects on light-limited rates of photosynthesis: relationship to pigmentation and productivity estimates for *Synechococcus* populations from the Sargasso Sea. *Marine Ecology-Progress Series* 54(1-2):121-136. <http://www.int-res.com/articles/meps/54/m054p121.pdf>

Price JF, Weller RA, Bowers CM, Briscoe MG. 1987. Diurnal Response of Sea Surface Temperature Observed at the Long-Term Upper Ocean Study (34 degrees N, 70 degrees W) in the Sargasso Sea. *Journal of Geophysical Research-Oceans* 92(C13):14480-14490. <http://dx.doi.org/10.1029/JC092iC13p14480>

Price NM, Harrison PJ. 1988. Urea uptake by Sargasso Sea phytoplankton: saturated and in situ uptake rates. *Deep-Sea Research Part a-Oceanographic Research Papers* 35(9):1579-1593. [http://dx.doi.org/10.1016/0198-0149\(88\)90104-5](http://dx.doi.org/10.1016/0198-0149(88)90104-5)

Pujolar JM, Bevacqua D, Andrello M, Capoccioni F, Ciccotti E, De Leo GA, Zane L. 2011. Genetic patchiness in European eel adults evidenced by molecular genetics and population dynamics modelling. *Molecular Phylogenetics and Evolution* 58(2):198-206.

<http://dx.doi.org/10.1016/j.ympev.2010.11.019>

Pujolar JM, Bevacqua D, Capoccioni F, Ciccotti E, De Leo GA, Zane L. 2011. No apparent genetic bottleneck in the demographically declining European eel using molecular genetics and forward-time simulations. *Conservation Genetics* 12(3):813-825.

<http://dx.doi.org/10.1007/s10592-011-0188-y>

Pujolar JM, De Leo GA, Ciccotti E, Zane L. 2009. Genetic composition of Atlantic and Mediterranean recruits of European eel *Anguilla anguilla* based on EST-linked microsatellite loci. *Journal of Fish Biology* 74(9):2034-2046.

<http://dx.doi.org/10.1111/j.1095-8649.2009.02267.x>

Rao DVS, Yeats PA. 1984. Effect of iron on phytoplankton production in the Sargasso Sea. *Journal of Experimental Marine Biology and Ecology* 81(3):281-289.

[http://dx.doi.org/10.1016/0022-0981\(84\)90147-3](http://dx.doi.org/10.1016/0022-0981(84)90147-3)

Reeves RR, Smith TD, Josephson EA, Clapham PJ, Woolmer G. 2004. Historical observations of humpback and blue whales in the North Atlantic Ocean: Clues to migratory routes and possibly additional feeding grounds. *Marine Mammal Science* 20(4):774-786.

<http://dx.doi.org/10.1111/j.1748-7692.2004.tb01192.x>

Regier L. 1982. Mesoscale current fields observed with a shipboard profiling acoustic current meter. *Journal of Physical Oceanography* 12(8):880-886.

[http://dx.doi.org/10.1175/1520-0485\(1982\)012<0880:MCFOWA>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1982)012<0880:MCFOWA>2.0.CO;2)

Requejo AG, Boehm PD. 1985. Characterization of hydrocarbons in a subsurface oil-rich layer in the Sargasso Sea. *Marine Environmental Research* 17(1):45-64.

[http://dx.doi.org/10.1016/0141-1136\(85\)90031-5](http://dx.doi.org/10.1016/0141-1136(85)90031-5)

Richards FA, Redfield AC. 1955. Oxygen-density relationships in the western North Atlantic.

Deep-Sea Research 2(3):182-199. [http://dx.doi.org/10.1016/0146-6313\(55\)90023-X](http://dx.doi.org/10.1016/0146-6313(55)90023-X)

Richardson PL, Strong AE, Knauss JA. 1973. Gulf Stream eddies: Recent observations in the western Sargasso Sea. *Journal of Physical Oceanography* 3(3):297-301.

[http://dx.doi.org/10.1175/1520-0485\(1973\)003<0297:GSEROI>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1973)003<0297:GSEROI>2.0.CO;2)

Riemann L, Alfredsson H, Hansen MM, Als TD, Nielsen TG, Munk P, Aarestrup K, Maes GE, Sparholt H, Petersen MI et al. . 2010. Qualitative assessment of the diet of European eel larvae in the Sargasso Sea resolved by DNA barcoding. *Biology Letters* 6(6):819-822.

<http://dx.doi.org/10.1098/rsbl.2010.0411>

Riemann L, Nielsen TG, Kragh T, Richardson K, Parner H, Jakobsen HH, Munk P. 2011. Distribution and production of plankton communities in the subtropical convergence zone of the Sargasso Sea. I. Phytoplankton and bacterioplankton. *Marine Ecology-Progress Series*

- 426:57-70. <http://dx.doi.org/10.3354/meps09001>
- Riley GA. 1957. Phytoplankton of the north central Sargasso Sea, 1950-52. *Limnology and Oceanography* 2(3):252-270. <http://www.jstor.org/stable/2832503>
- Riley GA, Van Hemert D, Wangersky PJ. 1965. Organic aggregates in surface and deep waters of the Sargasso Sea. *Limnology and Oceanography* 10(3):354-362. http://www.aslo.org/lo/toc/vol_10/issue_3/0354.pdf
- Riley GA, Wangersky PJ, Van Hemert D. 1964. Organic aggregates in tropical and subtropical surface waters of the North Atlantic Ocean. *Limnology and Oceanography* 9(4):546-550. http://www.aslo.org/lo/toc/vol_9/issue_4/0546.pdf
- Rivkin RB, Anderson MR. 1997. Inorganic nutrient limitation of oceanic bacterioplankton. *Limnology and Oceanography* 42(4):730-740. http://www.aslo.org/lo/toc/vol_42/issue_4/0730.pdf
- Rivkin RB, Swift E. 1979. Diel and vertical patterns of alkaline phosphatase activity in the oceanic dinoflagellate *Pyrocystis noctiluca*. *Limnology and Oceanography* 24(1):107-116. http://www.aslo.org/lo/toc/vol_24/issue_1/0107.pdf
- Roberts KA, Xu C, Hung CC, Conte MH, Santschi PH. 2009. Scavenging and fractionation of thorium vs. protactinium in the ocean, as determined from particle-water partitioning experiments with sediment trap material from the Gulf of Mexico and Sargasso Sea. *Earth and Planetary Science Letters* 286(1-2):131-138. <http://dx.doi.org/10.1016/j.epsl.2009.06.029>
- Roman MR, Caron DA, Kremer P, Lessard EJ, Madin LP, Malone TC, Napp JM, Peele ER, Youngbluth MJ. 1995. Spatial and Temporal Changes in the Partitioning of Organic-Carbon in the Plankton Community of the Sargasso Sea Off Bermuda. *Deep-Sea Research Part I-Oceanographic Research Papers* 42(6):973-992. [http://dx.doi.org/10.1016/0967-0637\(95\)00028-5](http://dx.doi.org/10.1016/0967-0637(95)00028-5)
- Roman MR, Dam HG, Gauzens AL, Napp JM. 1993. Zooplankton biomass and grazing at the JGOFS Sargasso Sea time series station. *Deep-Sea Research Part I-Oceanographic Research Papers* 40(5):883-901. [http://dx.doi.org/10.1016/0967-0637\(93\)90079-I](http://dx.doi.org/10.1016/0967-0637(93)90079-I)
- Rosenblum LJ, Marmorino GO. 1990. Statistics of Mixing Patches Observed in the Sargasso Sea. *Journal of Geophysical Research-Oceans* 95(C4):5349-5357. <http://dx.doi.org/10.1029/JC095iC04p05349>
- Rosby T, Webb D. 1970. Observing abyssal motions by tracking Swallow floats in the SOFAR channel. *Deep Sea Research and Oceanographic Abstracts* 17(2):359-362, IN17, 363-365. [http://dx.doi.org/10.1016/0011-7471\(70\)90027-6](http://dx.doi.org/10.1016/0011-7471(70)90027-6)
- Rowe JM, Saxton MA, Cottrell MT, DeBruyn JM, Berg GM, Kirchman DL, Hutchins DA, Wilhelm SW. 2008. Constraints on viral production in the Sargasso Sea and North Atlantic. *Aquatic Microbial Ecology* 52(3):233-244. <http://dx.doi.org/10.3354/ame01231>

- Rudershausen PJ, Buckel JA, Edwards J, Gannon DP, Butler CM, Averett TW. 2010. Feeding Ecology of Blue Marlins, Dolphinfin, Yellowfin Tuna, and Wahoos from the North Atlantic Ocean and Comparisons with Other Oceans. *Transactions of the American Fisheries Society* 139(5):1335-1359. <http://dx.doi.org/10.1577/t09-105.1>
- Ryther JH, Menzel DW. 1961. The biochemical circulation of elements in the Sargasso Sea. St. George's West, Bermuda: Bermuda Biological Station.
- Ryther JH, Menzel DW. 1964. Physical, chemical and biological observations in the Sargasso Sea off Bermuda, 1960 - 1963. Woods Hole Mass: Woods Hole Oceanographic Institution.
- Ryther JH, Menzel DW, Bowen VT, Hulburt EM, Bermuda Biological Station for R, Woods Hole Oceanographic I. 1958. The plankton ecology and related chemistry and hydrography of the Sargasso Sea : progress report, 1 September, 1957-1 June, 1958 and application for renewal of contract. St. George's West, Bermuda: Bermuda Biological Station for Research.
- Ryther JH, Menzel DW, Vaccaro RF. 1961. Diurnal variations in some chemical and biological properties of the Sargasso Sea. *Limnology and Oceanography* 6(2):149-153. http://www.aslo.org/lo/toc/vol_6/issue_2/0149.pdf
- Ryther JH, Menzel DW, Vishniac HS, Bermuda Biological Station for R. 1960. Nutrients limiting phytoplankton growth in the Sargasso Sea. St. George's West, Bermuda: Bermuda Biological Station for Research.
- Saba VS, Friedrichs MAM, Carr ME, Antoine D, Armstrong RA, Asanuma I, Aumont O, Bates NR, Behrenfeld MJ, Bennington V et al. . 2010. Challenges of modeling depth-integrated marine primary productivity over multiple decades: A case study at BATS and HOT. *Global Biogeochemical Cycles* 24:Gb3020. <http://dx.doi.org/10.1029/2009gb003655>
- Sabehi G, Kirkup BC, Rozenberg M, Stambler N, Polz MF, Beja O. 2007. Adaptation and spectral tuning in divergent marine proteorhodopsins from the eastern Mediterranean and the Sargasso Seas. *Isme Journal* 1(1):48-55. <http://dx.doi.org/10.1038/ismej.2007.10>
- Saenger RA. 1989. Bivariate Normal Swimbladder Size Allometry Models and Allometric Exponents for 38 Mesopelagic Swimbladdered Fish Species Commonly Found in the North Sargasso Sea. *Canadian Journal of Fisheries and Aquatic Sciences* 46(11):1986-2002. <http://dx.doi.org/10.1139/f89-249>
- Saito MA, Moffett JW. 2001. Complexation of cobalt by natural organic ligands in the Sargasso Sea as determined by a new high-sensitivity electrochemical cobalt speciation method suitable for open ocean work. *Marine Chemistry* 75(1-2):49-68. [http://dx.doi.org/10.1016/S0304-4203\(01\)00025-1](http://dx.doi.org/10.1016/S0304-4203(01)00025-1)
- Saito MA, Moffett JW. 2002. Temporal and spatial variability of cobalt in the Atlantic Ocean. *Geochimica Et Cosmochimica Acta* 66(11):1943-1953. [http://dx.doi.org/10.1016/S0016-7037\(02\)00829-3](http://dx.doi.org/10.1016/S0016-7037(02)00829-3)

Salihoglu B, Garcon V, Oschlies A, Lomas MW. 2008. Influence of nutrient utilization and remineralization stoichiometry on phytoplankton species and carbon export: A modeling study at BATS. *Deep-Sea Research Part I-Oceanographic Research Papers* 55(1):73-107.

<http://dx.doi.org/10.1016/j.dsr.2007.09.010>

Sanders RW, Berninger UG, Lim EL, Kemp PF, Caron DA. 2000. Heterotrophic and mixotrophic nanoplankton predation on picoplankton in the Sargasso Sea and on Georges Bank. *Marine Ecology-Progress Series* 192:103-118. <http://dx.doi.org/10.3354/meps192103>

Sayles FL, Deuser WG, Goudreau JE, Dickinson WH, Jickells TD, King P. 1996. The benthic cycle of biogenic opal at the Bermuda Atlantic Time Series site. *Deep-Sea Research Part I-Oceanographic Research Papers* 43(4):383-409.

[http://dx.doi.org/10.1016/0967-0637\(96\)00027-1](http://dx.doi.org/10.1016/0967-0637(96)00027-1)

Sayles FL, Martin WR, Deuser WG. 1994. Response of benthic oxygen demand to particulate organic carbon supply in the deep sea near Bermuda. *Nature* 371(6499):686-689.

<http://dx.doi.org/10.1038/371686a0>

Schartau M, Oschlies A. 2003. Simultaneous data-based optimization of a 1D-ecosystem model at three locations in the North Atlantic: Part II - Standing stocks and nitrogen fluxes. *Journal of Marine Research* 61(6):795-821. <http://dx.doi.org/10.1357/002224003322981156>

Schneider CW. 2003. An annotated checklist and bibliography of the marine macroalgae of the Bermuda Islands. *Nova Hedwigia* 76(3-4):275-361.

<http://dx.doi.org/10.1127/0029-5035/2003/0076-0275>

Schnetzer A, Steinberg DK. 2002. Active transport of particulate organic carbon and nitrogen by vertically migrating zooplankton in the Sargasso Sea. *Marine Ecology-Progress Series* 234:71-84.

<http://dx.doi.org/10.3354/meps234071>

Schnetzer A, Steinberg DK. 2002. Natural diets of vertically migrating zooplankton in the Sargasso Sea. *Marine Biology* 141(1):89-99. <http://dx.doi.org/10.1007/s00227-002-0815-8>

Schnetzer A, Steinberg DK. 2002. Natural diets of vertically migrating zooplankton in the Sargasso Sea. *Marine Biology* 141(2):403-403. <http://dx.doi.org/10.1007/s00227-002-0917-3>

Schoth M. 1982. Taxonomic studies on the 0-group eel larvae (*Anguilla* sp.) caught in the Sargasso Sea in 1979. *Helgolander Meeresuntersuchungen* 35(3):279-287.

<http://dx.doi.org/10.1007/BF02006136>

Schoth M, Tesch FW. 1984. The vertical-distribution of small o-group anguilla larvae in the Sargasso Sea with reference to other anguilliform leptocephali. *Meeresforschung-Reports on Marine Research* 30(3):188-195.

Schropp SJ, Schwarz JR, Larock PA. 1987. Hydrogen production potential of fermentative microorganisms from the Sargasso Sea. *Geomicrobiology Journal* 5(2):149-158.

<http://dx.doi.org/10.1080/01490458709385965>

- Schultz ET, Cowen RK. 1994. Recruitment of coral-reef fishes to Bermuda: local retention or long-distance transport? *Marine Ecology-Progress Series* 109(1):15-28.
<http://www.int-res.com/articles/meps/109/m109p015.pdf>
- Sedwick PN, Church TM, Bowie AR, Marsay CM, Ussher SJ, Achilles KM, Lethaby PJ, Johnson RJ, Sarin MM, McGillicuddy DJ. 2005. Iron in the Sargasso Sea (Bermuda Atlantic Time-series Study region) during summer: Eolian imprint, spatiotemporal variability, and ecological implications. *Global Biogeochemical Cycles* 19(4):Gb4006. <http://dx.doi.org/10.1029/2004gb002445>
- Sedwick PN, Sholkovitz ER, Church TM. 2007. Impact of anthropogenic combustion emissions on the fractional solubility of aerosol iron: Evidence from the Sargasso Sea. *Geochemistry Geophysics Geosystems* 8:Q10q06. <http://dx.doi.org/10.1029/2007gc001586>
- Sheldon RW, Sutcliffe WH, Jr. 1978. Generation time of 3 h for Sargasso Sea microplankton determined by ATP analysis. *Limnology and Oceanography* 23(5):1051-1055.
http://www.aslo.org/lo/toc/vol_23/issue_5/1051.pdf
- Sheldon RW, Sutcliffe WH, Jr., Prakash A. 1973. The production of particles in the surface waters of the ocean with particular reference to the Sargasso Sea. *Limnology and Oceanography* 18(5):719-733. http://www.aslo.org/lo/toc/vol_18/issue_5/0719.pdf
- Sholkovitz ER, Schneider DL. 1991. Cerium redox cycles and rare earth elements in the Sargasso Sea. *Geochimica Et Cosmochimica Acta* 55(10):2737-2743.
[http://dx.doi.org/10.1016/0016-7037\(91\)90440-G](http://dx.doi.org/10.1016/0016-7037(91)90440-G)
- Sholkovitz ER, Sedwick PN. 2006. Open-ocean deployment of a buoy-mounted aerosol sampler on the Bermuda Testbed Mooring: Aerosol iron and sea salt over the Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 53(3):547-560.
<http://dx.doi.org/10.1016/j.dsr.2005.12.002>
- Sieburth JM, Conover JT. 1965. Slicks associated with *Trichodesmium* blooms in the Sargasso Sea. *Nature* 205(4973):830-831. <http://dx.doi.org/10.1038/205830b0>
- Sieburth JM, Davis PG. 1982. The role of heterotrophic nanoplankton in the grazing and nurturing of planktonic bacteria in the Sargasso and Caribbean Seas. *Institut Oceanographique. Annales.*
- Siegel DA, Armstrong RA. 2002. Trajectories of sinking particles in the Sargasso Sea: modeling of statistical funnels above deep-ocean sediment traps (vol 44, pg 1519, 1997). *Deep-Sea Research Part I-Oceanographic Research Papers* 49(6):1115-1116.
[http://dx.doi.org/10.1016/S0967-0637\(02\)00007-9](http://dx.doi.org/10.1016/S0967-0637(02)00007-9)
- Siegel DA, Court DB, Menzies DW, Peterson P, Maritorena S, Nelson NB. 2008. Satellite and in situ observations of the bio-optical signatures of two mesoscale eddies in the Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography* 55(10-13):1218-1230.
<http://dx.doi.org/10.1016/j.dsr2.2008.01.012>

- Siegel DA, Deuser WG. 1997. Trajectories of sinking particles in the Sargasso Sea: modeling of statistical funnels above deep-ocean sediment traps. *Deep-Sea Research Part I-Oceanographic Research Papers* 44(9-10):1519-1541. [http://dx.doi.org/10.1016/S0967-0637\(97\)00028-9](http://dx.doi.org/10.1016/S0967-0637(97)00028-9)
- Siegel DA, Iturriaga R, Bidigare RR, Smith RC, Pak H, Dickey TD, Marra J, Baker KS. 1990. Meridional variations of the springtime phytoplankton community in the Sargasso Sea. *Journal of Marine Research* 48(2):379-412. <http://dx.doi.org/10.1357/002224090784988791>
- Siegel DA, McGillicuddy DJ, Fields EA. 1999. Mesoscale eddies, satellite altimetry, and new production in the Sargasso Sea. *Journal of Geophysical Research-Oceans* 104(C6):13359-13379. <http://dx.doi.org/10.1029/1999JC900051>
- Siegel DA, Michaels AF. 1996. Quantification of non-algal light attenuation in the Sargasso Sea: Implications for biogeochemistry and remote sensing. *Deep-Sea Research Part II-Topical Studies in Oceanography* 43(2-3):321-345. [http://dx.doi.org/10.1016/0967-0645\(96\)00088-4](http://dx.doi.org/10.1016/0967-0645(96)00088-4)
- Siegel DA, Michaels AF, Sorensen JC, Obrien MC, Hammer MA. 1995. Seasonal variability of light availability and utilization in the Sargasso Sea. *Journal of Geophysical Research-Oceans* 100(C5):8695-8713. <http://dx.doi.org/10.1029/95JC00447>
- Siegel DA, Westberry TK, O'Brien MC, Nelson NB, Michaels AF, Morrison JR, Scott A, Caporelli EA, Sorensen JC, Maritorena S et al. . 2001. Bio-optical modeling of primary production on regional scales: the Bermuda BioOptics project. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1865-1896. [http://dx.doi.org/10.1016/S0967-0645\(00\)00167-3](http://dx.doi.org/10.1016/S0967-0645(00)00167-3)
- Sieracki ME, Haugen EM, Cucci TL. 1995. Overestimation of heterotrophic bacteria in the Sargasso Sea: direct evidence by flow and imaging cytometry. *Deep-Sea Research Part I-Oceanographic Research Papers* 42(8):1399-&. [http://dx.doi.org/10.1016/0967-0637\(95\)00055-B](http://dx.doi.org/10.1016/0967-0637(95)00055-B)
- Sieracki ME, Viles CL. 1992. Distributions and fluorochrome-staining properties of submicrometer particles and bacteria in the North Atlantic. *Deep-Sea Research Part a-Oceanographic Research Papers* 39(11-12A):1919-1929. [http://dx.doi.org/10.1016/0198-0149\(92\)90005-E](http://dx.doi.org/10.1016/0198-0149(92)90005-E)
- Sigman DM, Altabet MA, Michener R, McCorkle DC, Fry B, Holmes RM. 1997. Natural abundance-level measurement of the nitrogen isotopic composition of oceanic nitrate: an adaptation of the ammonia diffusion method. *Marine Chemistry* 57(3-4):227-242. [http://dx.doi.org/10.1016/S0304-4203\(97\)00009-1](http://dx.doi.org/10.1016/S0304-4203(97)00009-1)
- Smith RC, Marra J, Perry MJ, Baker KS, Swift E, Buskey E, Kiefer DA. 1989. Estimation of a photon budget for the upper ocean in the Sargasso Sea. *Limnology and Oceanography* 34(8):1673-1693. http://www.aslo.org/lo/toc/vol_34/issue_8/1673.pdf
- Smith RC, Waters KJ, Baker KS. 1991. Optical variability and pigment biomass in the Sargasso Sea as determined using deep-sea optical mooring data. *Journal of Geophysical Research-Oceans* 96(C5):8665-8686. <http://dx.doi.org/10.1029/91JC00080>

- Sorensen JC, Siegel DA. 2001. Variability of the effective quantum yield for carbon assimilation in the Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):2005-2035. [http://dx.doi.org/10.1016/S0967-0645\(00\)00170-3](http://dx.doi.org/10.1016/S0967-0645(00)00170-3)
- Sowell SM, Wilhelm LJ, Norbeck AD, Lipton MS, Nicora CD, Barofsky DF, Carlson CA, Smith RD, Giovanonni SJ. 2009. Transport functions dominate the SAR11 metaproteome at low-nutrient extremes in the Sargasso Sea. *Isme Journal* 3(1):93-105. <http://dx.doi.org/10.1038/ismej.2008.83>
- Spencer DW, Brewer PG, Fleer A, Honjo S, Krishnaswami S, Nozaki Y. 1978. Chemical fluxes from a sediment trap experiment in the deep Sargasso Sea. *Journal of Marine Research* 36(3):493-523.
- Spiesberger JL, Birdsall TG, Metzger K, Knox RA, Spofford CW, Spindel RC. 1983. Measurements of Gulf Stream meandering and evidence of seasonal thermocline development using long-range acoustic transmissions. *Journal of Physical Oceanography* 13(10):1836-1846. [http://dx.doi.org/10.1175/1520-0485\(1983\)013<1836:MOGSMMA>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1983)013<1836:MOGSMMA>2.0.CO;2)
- Spitz YH, Moisan JR, Abbott MR. 2001. Configuring an ecosystem model using data from the Bermuda Atlantic Time Series (BATS). *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1733-1768. [http://dx.doi.org/10.1016/S0967-0645\(00\)00159-4](http://dx.doi.org/10.1016/S0967-0645(00)00159-4)
- Spitz YH, Moisan JR, Abbott MR, Richman JG. 1998. Data assimilation and a pelagic ecosystem model: parameterization using time series observations. *Journal of Marine Systems* 16(1-2):51-68. [http://dx.doi.org/10.1016/S0924-7963\(97\)00099-7](http://dx.doi.org/10.1016/S0924-7963(97)00099-7)
- Stanley RHR, Buesseler KO, Manganini SJ, Steinberg DK, Valdes JR. 2004. A comparison of major and minor elemental fluxes collected in neutrally buoyant and surface-tethered sediment traps. *Deep-Sea Research Part I-Oceanographic Research Papers* 51(10):1387-1395. <http://dx.doi.org/10.1016/j.dsr.2004.05.010>
- Stanley RHR, Jenkins WJ, Lott DE, Doney SC. 2009. Noble gas constraints on air-sea gas exchange and bubble fluxes. *Journal of Geophysical Research-Oceans* 114:C11020. <http://dx.doi.org/10.1029/2009jc005396>
- Steele P, Collard SB, Blizzard AW. 1975. Myctophid fishes from the Florida Current and the northwestern Sargasso Sea. *Florida Scientist* 38(Suppl. 1):7.
- Steinberg DK, Carlson CA, Bates NR, Goldthwait SA, Madin LP, Michaels AF. 2000. Zooplankton vertical migration and the active transport of dissolved organic and inorganic carbon in the Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 47(1):137-158. [http://dx.doi.org/10.1016/S0967-0637\(99\)00052-7](http://dx.doi.org/10.1016/S0967-0637(99)00052-7)
- Steinberg DK, Carlson CA, Bates NR, Johnson RJ, Michaels AF, Knap AH. 2001. Overview of the US JGOFS Bermuda Atlantic Time-series Study (BATS): a decade-scale look at ocean biology and biogeochemistry. *Deep-Sea Research Part II-Topical Studies in Oceanography* 48(8-9):1405-1447. [http://dx.doi.org/10.1016/S0967-0645\(00\)00148-X](http://dx.doi.org/10.1016/S0967-0645(00)00148-X)

- Steinberg DK, Goldthwait SA, Hansell DA. 2002. Zooplankton vertical migration and the active transport of dissolved organic and inorganic nitrogen in the Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 49(8):1445-1461. [http://dx.doi.org/10.1016/S0967-0637\(02\)00037-7](http://dx.doi.org/10.1016/S0967-0637(02)00037-7)
- Stewart GM, Moran SB, Lomas MW. 2010. Seasonal POC fluxes at BATS estimated from Po-210 deficits. *Deep-Sea Research Part I-Oceanographic Research Papers* 57(1):113-124. <http://dx.doi.org/10.1016/j.dsr.2009.09.007>
- Stibane FA. 1983. Eggs of pelagic fish from the Sargasso Sea with special reference to Anguilliformes. *Helgolander Meeresuntersuchungen* 36(1):99-103. <http://dx.doi.org/10.1007/BF01995799>
- Stingl U, Tripp HJ, Giovannoni SJ. 2007. Improvements of high-throughput culturing yielded novel SAR11 strains and other abundant marine bacteria from the Oregon coast and the Bermuda Atlantic Time Series study site. *Isme Journal* 1(4):361-371. <http://dx.doi.org/10.1038/ismej.2007.49>
- Stoll HM, Ziveri P, Shimizu N, Conte M, Theroux S. 2007. Relationship between coccolith Sr/Ca ratios and coccolithophore production and export in the Arabian Sea and Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography* 54(5-7):581-600. <http://dx.doi.org/10.1016/j.dsr2.2007.01.003>
- Stommel H. 1956. On the determination of the depth of no meridional motion. *Deep-Sea Research* 3(4):273-278. [http://dx.doi.org/10.1016/0146-6313\(56\)90017-X](http://dx.doi.org/10.1016/0146-6313(56)90017-X)
- Stoner AW. 1983. Pelagic Sargassum : Evidence for a major decrease in biomass. *Deep-Sea Research* 30(4A):469-474. [http://dx.doi.org/10.1016/0198-0149\(83\)90079-1](http://dx.doi.org/10.1016/0198-0149(83)90079-1)
- Stramska M, Frye D. 1997. Dependence of apparent optical properties on solar altitude: Experimental results based on mooring data collected in the Sargasso Sea. *Journal of Geophysical Research-Oceans* 102(C7):15679-15691. <http://dx.doi.org/10.1029/97JC00886>
- Sunda WG, Hardison DR. 2008. Contrasting seasonal patterns in dimethylsulfide, dimethylsulfoniopropionate, and chlorophyll a in a shallow North Carolina estuary and the Sargasso Sea. *Aquatic Microbial Ecology* 53(3):281-294. <http://dx.doi.org/10.3354/ame01255>
- Sunda WG, Huntsman SA. 1988. Effect of sunlight on redox cycles of manganese in the southwestern Sargasso Sea. *Deep-Sea Research Part a-Oceanographic Research Papers* 35(8):1297-1317. [http://dx.doi.org/10.1016/0198-0149\(88\)90084-2](http://dx.doi.org/10.1016/0198-0149(88)90084-2)
- Suttle CA, Chan AM, Fuhrman JA. 1991. Dissolved free amino acids in the Sargasso Sea: uptake and respiration rates, turnover times, and concentrations. *Marine Ecology-Progress Series* 70(2):189-199. <http://www.int-res.com/articles/meps/70/m070p189.pdf>
- Sutton TT, Wiebe PH, Madin L, Bucklin A. 2010. Diversity and community structure of pelagic fishes to 5000 m depth in the Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in*

- Oceanography 57(24-26):2220-2233. <http://dx.doi.org/10.1016/j.dsr2.2010.09.024>
- Sweeney EN, McGillicuddy DJ, Buesseler KO. 2003. Biogeochemical impacts due to mesoscale eddy activity in the Sargasso Sea as measured at the Bermuda Atlantic Time-series Study (BATS). Deep-Sea Research Part II-Topical Studies in Oceanography 50(22-26):3017-3039. <http://dx.doi.org/10.1016/j.dsr2.2003.07.008>
- Swift E, Biggley WH, Verity PG, Brown DT. 1983. Zooplankton are major sources of epipelagic bioluminescence in the southern Sargasso Sea. Bulletin of Marine Science 33(4):855-863. <http://www.ingentaconnect.com/content/umrsmas/bullmar/1983/00000033/00000004/art00005>
- Swift E, Lessard EJ, Biggley WH. 1985. Organisms associated with stimulated epipelagic bioluminescence in the Sargasso Sea and the Gulf Stream. Journal of Plankton Research 7(6):831-848. <http://dx.doi.org/10.1093/plankt/7.6.831>
- Teal J, Teal M. 1975. The Sargasso Sea. Boston: Little, Brown.
- Tesch FW. 1982. Further studies on eel larvae collections taken by R.V. Friedrich Heincke 1981 in the Sargasso Sea and during North Atlantic transects.
- Tesch FW. 1982. The Sargasso Sea Eel Expedition 1979. Helgolander Meeresuntersuchungen 35(3):263-277. <http://dx.doi.org/10.1007/BF02006135>
- Tian ZL, Ollivier P, Veron A, Church TM. 2008. Atmospheric Fe deposition modes at Bermuda and the adjacent Sargasso Sea. Geochemistry Geophysics Geosystems 9:Q08007. <http://dx.doi.org/10.1029/2007gc001868>
- Tolli JD, Taylor CD. 2005. Biological CO oxidation in the Sargasso Sea and in Vineyard Sound, Massachusetts. Limnology and Oceanography 50(4):1205-1212. <http://dx.doi.org/10.4319/lo.2005.50.4.1205>
- Toole DA, Kieber DJ, Kiene RP, Siegel DA, Nelson NB. 2003. Photolysis and the dimethylsulfide (DMS) summer paradox in the Sargasso Sea. Limnology and Oceanography 48(3):1088-1100. <http://dx.doi.org/10.4319/lo.2003.48.3.1088>
- Toole DA, Siegel DA. 2004. Light-driven cycling of dimethylsulfide (DMS) in the Sargasso Sea: Closing the loop. Geophysical Research Letters 31(9):L09308. <http://dx.doi.org/10.1029/2004gl019581>
- Toole DA, Siegel DA, Doney SC. 2008. A light-driven, one-dimensional dimethylsulfide biogeochemical cycling model for the Sargasso Sea. Journal of Geophysical Research-Biogeosciences 113(G2):G02009. <http://dx.doi.org/10.1029/2007jg000426>
- Topliss BJ. 1985. Optical measurements in the Sargasso Sea - solar stimulated chlorophyll fluorescence. Oceanologica Acta 8(3):263-270.
- Torres-Valdes S, Roussenov VM, Sanders R, Reynolds S, Pan X, Mather R, Landolfi A, Wolff GA,

- Achterberg EP, Williams RG. 2009. Distribution of dissolved organic nutrients and their effect on export production over the Atlantic Ocean. *Global Biogeochemical Cycles* 23:Gb4019. <http://dx.doi.org/10.1029/2008gb003389>
- Tress ML, Cozzetto D, Tramontano A, Valencia A. 2006. An analysis of the Sargasso Sea resource and the consequences for database composition. *Bmc Bioinformatics* 7:213. <http://dx.doi.org/10.1186/1471-2105-7-213>
- Tsukamoto K. 2009. Oceanic migration and spawning of anguillid eels. *Journal of Fish Biology* 74(9):1833-1852. <http://dx.doi.org/10.1111/j.1095-8649.2009.02242.x>
- Tucker KP, Parsons R, Symonds EM, Breitbart M. 2011. Diversity and distribution of single-stranded DNA phages in the North Atlantic Ocean. *Isme Journal* 5(5):822-830. <http://dx.doi.org/10.1038/ismej.2010.188>
- Twining BS, Nunez-Milland D, Vogt S, Johnson RS, Sedwick PN. 2010. Variations in Synechococcus cell quotas of phosphorus, sulfur, manganese, iron, nickel, and zinc within mesoscale eddies in the Sargasso Sea. *Limnology and Oceanography* 55(2):492-506. <http://dx.doi.org/10.4319/lo.2010.55.2.0492>
- Ulken A. 1979. Phycomycetes from the Sargasso Sea: preliminary results. *Veroeffentlichungen des Instituts fuer Meeresforschung in Bremerhaven* 27(1979).
- Ulken A, Jackle I, Bahnweg G. 1985. Morphology, nutrition and taxonomy of an Aplanochytrium sp. from the Sargasso Sea. *Marine Biology* 85(1):89-95. <http://dx.doi.org/10.1007/BF00396419>
- Ullman DJ, McKinley GA, Bennington V, Dutkiewicz S. 2009. Trends in the North Atlantic carbon sink: 1992-2006. *Global Biogeochemical Cycles* 23:Gb4011. <http://dx.doi.org/10.1029/2008gb003383>
- Urbach E, Chisholm SW. 1998. Genetic diversity in Prochlorococcus populations flow cytometrically sorted from the Sargasso Sea and Gulf Stream. *Limnology and Oceanography* 43(7):1615-1630. <http://dx.doi.org/10.4319/lo.1998.43.7.1615>
- Vallina SM, Simo R, Anderson TR, Gabric A, Cropp R, Pacheco JM. 2008. A dynamic model of oceanic sulfur (DMOS) applied to the Sargasso Sea: Simulating the dimethylsulfide (DMS) summer paradox. *Journal of Geophysical Research-Biogeosciences* 113(G1):G01009. <http://dx.doi.org/10.1029/2007jg000415>
- van Ginneken V, Antonissen E, Muller UK, Booms R, Eding E, Verreth J, van den Thillart G. 2005. Eel migration to the Sargasso: remarkably high swimming efficiency and low energy costs. *Journal of Experimental Biology* 208(7):1329-1335. <http://dx.doi.org/10.1242/jeb.01524>
- van Ginneken VJT, Maes GE. 2005. The european eel (*Anguilla anguilla*, Linnaeus), its lifecycle, evolution and reproduction: a literature review. *Reviews in Fish Biology and Fisheries* 15(4):367-398. <http://dx.doi.org/10.1007/s11160-006-0005-8>
- Van Mooy BAS, Fredricks HF, Pedler BE, Dyhrman ST, Karl DM, Koblizek M, Lomas MW, Mincer

- TJ, Moore LR, Moutin T et al. . 2009. Phytoplankton in the ocean use non-phosphorus lipids in response to phosphorus scarcity. *Nature* 458(7234):69-72.
<http://dx.doi.org/10.1038/nature07659>
- Vasilenko VM, Kuzin VI, Mirabel AP. 1980. On the spatial variability of current velocities in the Sargasso Sea from the POLYMODE data. *Okeanologiya/Oceanology*(3):432-440.
- Vasilenko VM, Kuzin VI, Mirabel AP. 1980. Spatial Variability of the Velocity of Currents in the Sargasso Sea According to POLYMODE Data. *Oceanology of the Academy of Sciences of the USSR* 20(3):283-288.
- Vastano AC, Hagan DE. 1977. Observational evidence for transformation of tropospheric waters within cyclonic rings. *Journal of Physical Oceanography* 7(6):938-943.
[http://dx.doi.org/10.1175/1520-0485\(1977\)007<0938:OEFTOT>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1977)007<0938:OEFTOT>2.0.CO;2)
- Vastano AC, Owens GE. 1973. On the acoustic characteristics of a Gulf Stream cyclonic ring. *Journal of Physical Oceanography* 3(4):470-478.
[http://dx.doi.org/10.1175/1520-0485\(1973\)003<0470:OTACOA>2.0.CO;2](http://dx.doi.org/10.1175/1520-0485(1973)003<0470:OTACOA>2.0.CO;2)
- Velez-Espino LA, Koops MA. 2010. A synthesis of the ecological processes influencing variation in life history and movement patterns of American eel: towards a global assessment. *Reviews in Fish Biology and Fisheries* 20(2):163-186. <http://dx.doi.org/10.1007/s11160-009-9127-0>
- Venter JC, Remington K, Heidelberg JF, Halpern AL, Rusch D, Eisen JA, Wu DY, Paulsen I, Nelson KE, Nelson W et al. . 2004. Environmental genome shotgun sequencing of the Sargasso Sea. *Science* 304(5667):66-74. <http://dx.doi.org/10.1126/science.1093857>
- Verity PG. 1985. Ammonia excretion rates of oceanic copepods and implications for estimates of primary production in the Sargasso Sea. *Biological Oceanography* 3(3):249-283.
- Veron AJ, Church TM, Flegal AR, Patterson CC, Erel Y. 1993. Response of lead cycling in the surface Sargasso Sea to changes in tropospheric input. *Journal of Geophysical Research-Oceans* 98(C10):18269-18276. <http://dx.doi.org/10.1029/93JC01639>
- Vettier A, Szekely C, Sebert P. 2003. Are yellow eels from Lake Balaton able to cope with high pressure encountered during migration to the Sargasso Sea? The case of energy metabolism. *Animal Biology* 53(4):329-338. <http://dx.doi.org/10.1163/157075603322556247>
- Vila-Costa M, Rinta-Kanto JM, Sun SL, Sharma S, Poretsky R, Moran MA. 2010. Transcriptomic analysis of a marine bacterial community enriched with dimethylsulfoniopropionate. *ISME Journal* 4(11):1410-1420. <http://dx.doi.org/10.1038/ismej.2010.62>
- Villareal TA, Lipschultz F. 1995. Internal nitrate concentrations in single cells of large phytoplankton from the Sargasso Sea. *Journal of Phycology* 31(5):689-696.
<http://dx.doi.org/10.1111/j.0022-3646.1995.00689.x>
- Vogt M, Vallina SM, Buitenhuis ET, Bopp L, Le Quere C. 2010. Simulating dimethylsulphide seasonality with the Dynamic Green Ocean Model PlankTOM5. *Journal of Geophysical*

- Research-Oceans 115:C06021. <http://dx.doi.org/10.1029/2009jc005529>
- Volostnykh BV. 1979. Phosphorus forms in the surface microlayer of the western Sargasso Sea. *Okeanologiya* 19(1):73-76.
- Volostnykh BV, Lyakhin Y, Nesterova MP, Novikov PD, Svanidze AG. 1981. Ocean-Atmosphere Oxygen Exchange in the POLYMODE Area. *Okeanologiya* 21(2):266-272.
- Voorhis AD. 1969. The horizontal extent and persistence of thermal fronts in the Sargasso Sea. *Deep Sea Research and Oceanographic Abstracts* 16(Supplement):331-337.
- Vukovich FM, Crissman BW. 1978. Observations of the intrusion of a narrow warm tongue into the Sargasso Sea using satellite and in situ data. *Journal of Geophysical Research-Oceans* 83(C4):1929-1934. <http://dx.doi.org/10.1029/JC083iC04p01929>
- Wade TL, Quinn JG. 1975. Hydrocarbons in the Sargasso Sea surface microlayer. *Marine Pollution Bulletin* 6(4):54-57. [http://dx.doi.org/10.1016/0025-326X\(75\)90131-9](http://dx.doi.org/10.1016/0025-326X(75)90131-9)
- Wade TL, Quinn JG. 1977. Analyzing tar in the Sargasso Sea. *Maritimes* 21(2):1-2.
- Walsh GE, Douglass J. 1966. Vertical distribution of dissolved carbohydrate in the Sargasso Sea off Bermuda. *Limnology and Oceanography* 11(3):406-410. http://www.aslo.org/lo/toc/vol_11/issue_3/0406.pdf
- Waser NAD, Bacon MP, Michaels AF. 1996. Natural activities of P-32 and P-33 and the P-33/P-32 ratio in suspended particulate matter and plankton in the Sargasso Sea. *Deep-Sea Research Part II-Topical Studies in Oceanography* 43(2-3):421-436. [http://dx.doi.org/10.1016/0967-0645\(95\)00092-5](http://dx.doi.org/10.1016/0967-0645(95)00092-5)
- Waters KJ, Smith RC, Marra J. 1994. Phytoplankton production in the Sargasso Sea as determined using optical mooring data. *Journal of Geophysical Research-Oceans* 99(C9):18385-18402. <http://dx.doi.org/10.1029/94JC00982>
- Weber L, Volker C, Oeschlies A, Burchard H. 2007. Iron profiles and speciation of the upper water column at the Bermuda Atlantic Time-series Study site: a model based sensitivity study. *Biogeosciences* 4(4):689-706. <http://dx.doi.org/10.5194/bg-4-689-2007>
- Weber L, Volker C, Schartau M, Wolf-Gladrow DA. 2005. Modeling the speciation and biogeochemistry of iron at the Bermuda Atlantic Time-series Study site. *Global Biogeochemical Cycles* 19(1):Gb1019. <http://dx.doi.org/10.1029/2004gb002340>
- Wegner G. 1982. Main hydrographic features of the Sargasso Sea in spring 1979. *Helgolander Meeresuntersuchungen* 35(3):385-400. <http://dx.doi.org/10.1007/BF02006145>
- Westberry TK, Siegel DA. 2003. Phytoplankton natural fluorescence variability in the Sargasso Sea. *Deep-Sea Research Part I-Oceanographic Research Papers* 50(3):417-434. [http://dx.doi.org/10.1016/s0967-0637\(03\)00019-0](http://dx.doi.org/10.1016/s0967-0637(03)00019-0)

- Westin L. 1977. Temperature as orientation cue in migrating silver eels, *Anguilla anguilla* (L.). University of Stockholm (Sweden). Asko Laboratory.
- Wiggert JD, Granata TC, Dickey TD, Marra J. 1999. A seasonal succession of physical/biological interaction mechanisms in the Sargasso Sea. *Journal of Marine Research* 57(6):933-966. <http://www.ingentaconnect.com/content/jmr/jmr/1999/00000057/00000006/art00005>
- Willey JD, Kieber RJ, Avery GB. 2004. Effects of rainwater iron and hydrogen peroxide on iron speciation and phytoplankton growth in seawater near Bermuda. *Journal of Atmospheric Chemistry* 47(3):209-222. <http://dx.doi.org/10.1023/B:JOCH.0000021087.19846.e1>
- Williams DF, Be AWH, Fairbanks RG. 1979. Seasonal oxygen isotopic variations in living planktonic foraminifera off Bermuda. *Science* 206(4417):447-449. <http://dx.doi.org/10.1126/science.206.4417.447>
- Winge Ø. 1923. The Sargasso Sea, its boundaries and vegetation. Copenhagen: A.F. Høst & søn.
- Wippelhauser GS, McCleave JD, Kleckner RC. 1985. *Anguilla-rostrata* leptocephali in the Sargasso Sea during February and March 1981. *Dana-a Journal of Fisheries and Marine Research* 4:93-98.
- Wippelhauser GS, Miller MJ, McCleave JD. 1996. Evidence of spawning and the larval distributions of snipe eels (family Nemichthyidae) in the Sargasso Sea. *Bulletin of Marine Science* 59(2):298-309. <http://www.ingentaconnect.com/content/umrsmas/bullmar/1996/00000059/00000002/art00005>
- Wood AM, Evans DW, Alberts JJ. 1983. Use of an ion exchange technique to measure copper complexing capacity of the continental shelf of the southeastern United States and in the Sargasso Sea. *Marine Chemistry* 13(4):305-326. [http://dx.doi.org/10.1016/0304-4203\(83\)90005-1](http://dx.doi.org/10.1016/0304-4203(83)90005-1)
- Woods Hole Oceanographic Institution. 1988. Station "S" off Bermuda : physical measurements, 1954-1984. Woods Hole, Mass.: Woods Hole Oceanographic Institution.
- Wormuth JH. 1981. Vertical distributions and diel migrations of Eutecosomata in the northwest Sargasso Sea. *Deep-Sea Research* 28(12A):1493-1515. [http://dx.doi.org/10.1016/0198-0149\(81\)90094-7](http://dx.doi.org/10.1016/0198-0149(81)90094-7)
- Wu JF, Boyle E. 2002. Iron in the Sargasso Sea: Implications for the processes controlling dissolved Fe distribution in the ocean. *Global Biogeochemical Cycles* 16(4):1086. <http://dx.doi.org/10.1029/2001gb001453>
- Wu JF, Sunda W, Boyle EA, Karl DM. 2000. Phosphate depletion in the western North Atlantic Ocean. *Science* 289(5480):759-762. <http://dx.doi.org/10.1126/science.289.5480.759>
- Yenikeyev V, Kozubskaya GI, Koshlyakov MN, Yaremchuk MI. 1982. Dynamics of the synoptic eddies of the POLYMODE region. *Doklady Earth Sciences* 262(1-6):30-33.

Yoshida H, Compton J, Punnett S, Lovell T, Draper K, Franklin G, Norris N, Phillip P, Wilkins R, Kato H. 2010. Cetacean Sightings in the Eastern Caribbean and Adjacent Waters, Spring 2004. *Aquatic Mammals* 36(2):154-161. <http://dx.doi.org/10.1578/am.36.2.2010.154>

Zafiriou OC, Xie HX, Nelson NB, Najjar RG, Wang W. 2008. Diel carbon monoxide cycling in the upper Sargasso Sea near Bermuda at the onset of spring and in midsummer. *Limnology and Oceanography* 53(2):835-850. <http://dx.doi.org/10.4319/lo.2008.53.2.0835>

Zamora LM, Landolfi A, Oschlies A, Hansell DA, Dietze H, Dentener F. 2010. Atmospheric deposition of nutrients and excess N formation in the North Atlantic. *Biogeosciences* 7(2):777-793. <http://dx.doi.org/10.5194/bg-7-777-2010>

Zantopp R, Leaman K. 1982. Gulf Cadiz Water Observed in a Thermocline Eddy in the Western North Atlantic. *Journal of Geophysical Research-Oceans* 87(C3):1927-1934. <http://dx.doi.org/10.1029/JC087iC03p01927>

Zhang Y, Fomenko DE, Gladyshev VN. 2005. The microbial selenoproteome of the Sargasso Sea. *Genome Biology* 6(4):R37. <http://dx.doi.org/10.1186/gb-2005-6-4-r37>