

Scientific Publications

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116. Zhang, H., S.A. Ludsin, D. M. Mason, S. B. Brandt, C. A. Stow, A. T. Adamack, X Zhang, D.G. Kimmel, M. R. Roman and W. C. Boicourt. 2014. Effects of hypoxia on habitat quality of pelagic planktivorous fishes in the northern Gulf of Mexico. *Mar. Ecol. Prog. Series*. 505:209-226.
117. Scavia, D. et al. 2014. Assessing and addressing the re-eutrophication of Lake Erie: Central Basin Hypoxia. *Journal of Great Lakes Research* 40(2): 226-246.

118. Brandt, S.B. 2014. Ask a Scientist: Lingcod: Oregon's Voracious Predator. Popular article in Oregon Coast Magazine. 33(5): 28 -29.
119. Brandt, S.B. 2014. Ask a Scientist: Gray Whale Migrations off Oregon. Popular article in Oregon Coast Magazine. 33(6): 10-11.
120. Brandt, S.B. 2015. Ask a Scientist: Oregon's Coastal Islands and Seastacks. Popular article in Oregon Coast Magazine. 34 (3): 12-13.
121. Brandt, S.B. 2015. Ask a Scientist: Oregon's Undersea Forests: Bull Kelp. Popular article in Oregon Coast Magazine. 34(4): 12-13.
122. Brandt, S. B. 2015. Ask a Scientist: Modern Tools Take the Pulse of Oregon's Coast. Popular article in Oregon Coast Magazine 34 (5): 12-13.
123. Brandt, S. B. 2016. Ask a Scientist: El Nino. Popular article in Oregon Coast magazine 35(1): 10-11.
124. Brandt, S. B. 2016. Sea Lions. *Oregon Coast Magazine*. 35(4): 12-13.
125. Brandt, S. B. 2016. Western Snowy Plover: Recovery needs our help. *Oregon Coast Magazine*. 35 (6): 12-13.
126. Wiens, J. et al. 2017. Facilitating Adaptive Management in the California's Sacramento-San Joaquin Delta. *San Francisco Estuary and Watershed Science*, In Press.
127. Goto, D., et al. 2017. Persistence of size-mediated demersal predator-prey coupling in transient dead zones in Lake Erie. *Aquatic Sciences*, In press.

Papers Drafted

- Brandt, S. B., Sellinger, C. E., and Glaspie, C. N. *Drafted*. Growth rate potential as a causal mechanism for North Pacific salmon returns in a changing climate. For submission to *PLOS One*.
- Brandt, S. B., Sellinger, C. E., and Glaspie, C. N. *Drafted*. Seafood diet: Linking fish feeding to habitat, prey availability and bioenergetics in a pelagic predator. For submission to *Environmental Biology of Fishes*.
- Glaspie, C. N., Elliot, D. T., Pierson, J. J., Roman, M. R., and Brandt, S. B. *Drafted*. Occurrence and diet of fish in relation to hypoxia in the northern Gulf of Mexico. For submission to *The Journal of Experimental Marine Biology and Ecology*.

- Mason, D. M., Glaspie, C. N., Clouse, M., Ludsin, S. A., Cha, Y., Adamack, A. T., Brandt, S. B., Stow, C. A., and Roman, M. R. *Drafted*. Effect of hypoxia on the feeding habits of Atlantic bumper *Chloroscombrus chrysurus* in the Northern Gulf of Mexico. For submission to *PLOS One*.
- Brandt, S.B. Growth rate potential as a Quantitative measure of Fish Habitat Quality. Status: *literature reviewed and partially written for Reviews in Fish Biology*.
- Brandt, S.B. and C. S. Sellinger. Sensitivity of spatially-explicit growth rate potential models to predator swimming speed and reactive distance. Status: initial analyses done and figures drafted. Intended for *Trans. Amer. Fish. Soc.*

Scientific Presentations

1. Brandt, S.B. and J.J. Magnuson. 1974. Acoustic detection of alewife in Lake Michigan. Invited paper to acoustic Fish Detection Workshop held at Glenora Fisheries Station, 14-15 November 1974, Picton, Ontario, CANADA.
2. Brandt, S.B. and J.J. Magnuson. 1975. Sonar stock assessment of alewife in Lake Michigan. Contributed paper to Wisconsin Chapter of the American Fisheries Society, annual meeting, 10-11 January 1975, Stevens Point, WI.
3. Brandt, S.B. and J.J. Magnuson. 1975. Application of acoustic techniques for the stock assessment of Lake Michigan alewives. Invited paper to Workshop on Problems of Assessing Populations of Nekton, 25-27 February 1975, Santa Barbara, CA.
4. Magnuson, J.J. and S.B. Brandt. 1975. Fish population estimation in Lake Michigan. The Great Lakes, 1975: The Great Lakes, 2001. 18-19 September 1975, Madison, WI.
5. Janssen, J. and S.B. Brandt. 1976. Vertical migration of alewives (*Alosa pseudoharengus*) and opossum shrimp (*Mysis relicta*) in Lake Michigan. Contributed paper to American Fisheries Society, Annual Meeting. 19-22 September 1976, Dearborn, MI.
6. Magnuson, J.J., S.B. Brandt and C.S. Clay. 1976. Bioacoustics location of a thermal front in the Atlantic Ocean near Cape Hatteras. 91st Meeting of the Acoustical Society of America, TX.
7. Peterson, L., C.S. Clay and S.B. Brandt. 1976. Acoustic estimates of fish density and scattering function. Contributed paper to 91st Meeting of the Acoustical Society of America, TX.
8. Stewart, D.J., S.B. Brandt and J.J. Magnuson. 1976. Distributional response of fish to a thermal front in the Atlantic Ocean near Cape Hatteras. Contributed paper to 39th

Meeting of the American Society of Limnology and Oceanography. 14-21 June 1976, Savannah, GA.

9. Stuntz, W.E., S.B. Brandt and R.J. Hall. 1976. Thermal, primacy in fish ecology, fact or fancy? Invited paper to 19th Conference on Great Lakes Research. May 1976, Guelph, Ontario, CANADA.
10. Brandt, S.B. 1977. Distributional ecology of alewife (*Alosa pseudoharengus*) in Lake Michigan. Invited paper to Sea Grant Great Lakes Fisheries Conference. 13-15 December 1977, Madison, WI.
11. Magnuson, J.J. and S.B. Brandt. 1977. Fish ecology of the Great Lakes. Invited paper to the 40th Meeting of the American Society of Limnology and Oceanography. 20-23 June 1977, East Lansing, MI.
12. Brandt, S.B. 1978. The effects of thermal fronts on fish distributions in Lake Michigan and the Atlantic Ocean. National Marine Fisheries Service. November 1978, La Jolla, CA.
13. Brandt, S.B. 1979. Application of acoustics to the study of fish - behavior an example from Lake Michigan. Invited paper to Australian Workshop on the Use of Acoustics in Biological Oceanography. 13-14 February 1979, Cronulla, N.S.W., AUSTRALIA.
14. Brandt, S.B. 1980. Response of mesopelagic fish to a warm-core eddy in the Tasman Sea. Contributed paper to the Australian Society of Fish Biology Annual Conference. 15-17 August 1980, Melbourne, AUSTRALIA.
15. Brandt, S.B. 1980. Distribution of mesopelagic fishes in and around a warm-core eddy of the southeast coast of Australia. Contributed paper to the winter meeting of the American Society of Limnology and Oceanography. 31 January 4 February 4, 1980, Los Angeles, CA.
16. Brandt, S.B. and V.A. Wadley. 1980. Thermal fronts as ecotones and zoogeographic barriers in marine and freshwater systems. Invited paper to Ecological Society of Australia, Annual Meeting. Melbourne, AUSTRALIA.
17. Crowder, L.B, J.J. Magnuson and S.B. Brandt. 1980. Thermal habitat shifts in Lake Michigan fishes. Contributed paper to the 23rd Conference on Great Lakes Research. 19-22 May 1980, Kingston, Ontario, CANADA.
18. Maxwell, J.G.H. and S.B. Brandt. 1981. Comparison of the relative sampling efficiencies of the RMT 8, IYGPT, and ENGEL pelagic trawls and the implications to mesopelagic biomass estimates by acoustics. Contributed paper to 8th Annual Conference of the Australian Society of Fish Biology. 31 July-3 August 1981, Brisbane, Queensland, AUSTRALIA.

19. Wadley, V.A., S.B. Brandt and F.B. Griffiths. 1981. Micronekton associated with a Tasman Sea eddy. Contributed paper to annual Meeting of the Australian Marine Sciences Association. 9-10 May 1981, Brisbane, Queensland, AUSTRALIA.
20. Brandt, S.B., V.A. Wadley and F.B. Griffiths. 1981. Micronekton associated with a warm-core eddy. Contributed paper to 44th Annual Meeting of the American Society of Limnology and Oceanography. 15-18 June 1981, Milwaukee, WI.
21. Brandt, S.B. 1982. Warm-core eddies: biological contrasts and consequences. Invited paper to U.S. - Australian - N.Z. Workshop on Warm-Core Eddies. 18-22 January 1982, Wellington, NEW ZEALAND.
22. Brandt, S.B. 1983. Selectivity of towed nets: its relationship to trawl size and fish behavior. Paper presented at the 113th Annual Meeting of the American Fisheries Society. 15-20 August 1983, Milwaukee, WI.
23. Brandt, S.B. and F.B. Griffiths. 1983. Physical and biological aspects of oceanic fronts. Paper presented at the Annual Meeting of the American Society of Limnology Oceanography. 11-16 June 1983, St. Johns, Newfoundland, CANADA.
24. Brandt, S.B. 1984. Disappearance of the deepwater sculpin from Lake Ontario; the keystone predator hypothesis. Paper presented to the Annual Meeting of the International Association of Great Lakes Research. 1-6 May 1984, St. Catharines, Ontario, Canada.
25. Brandt, S.B. 1984. Thermal habitat partitioning of mesopelagic fishes at warm-core eddies. Paper presented at the American Geophysical Union Meeting. 3-7 December 1984, San Francisco, CA.
26. Brandt, S.B. and D.P. Kolenosky. 1984. Food habits of adult trout and salmon in Lake Ontario. Paper presented to the 114th Annual Meeting of the American Fisheries Society. 14-17 August 1984, Ithaca, N.Y.
27. Brandt, S.B. 1985. Food of adult trout and salmon in Lake Ontario. Invited paper presented at the Annual Meeting of the International Association for Great Lakes Research. 2-5 June 1985, Milwaukee, WI.
28. Brandt, S.B. and L.B. Crowder. 1985. An ecological perspective on recent and historical dynamics in Great Lakes Fish Communities. Invited paper presented at the Annual Meeting of the International Association for Great Lakes Research. 2-5 June 1985, Milwaukee, WI.
29. Brandt, S.B. and R.M. DeMuth. 1985. Critical factors affecting winter survival of the alewife (*Alosa pseudoharengus*) in the Great Lakes: A bioenergetics evaluation. Paper presented at the Annual Meeting of the Inter. Assoc. for Great Lakes Research. 2-5 June 1985, Milwaukee, WI.

30. Brandt, S.B. 1985. Prey and habitat selection of Lake Ontario fishes in a fluctuating thermal environment. 115th Annual Meeting of the American Fisheries Society and the International Association of Fish and Wildlife Agencies. 7-12 September 1985, Sun Valley, ID.
31. Brandt, S.B. 1986. Trophic relationships among Lake Ontario fishes. 29th Conference on Great Lakes Research (IAGLR), University of Toronto. May 1986, Toronto, Ontario, CANADA.
32. Brandt, S.B., C.A. Iancu, T.P. Urban, M. Shea and J. Makarowicz. 1986. Comparison of alewife diet composition and zooplankton community structure in Lake Ontario. 29th Conference on Great Lakes Research (IAGLR), University of Toronto. May 1986, Toronto, Ontario, CANADA.
33. Madon, S.P. and S.B. Brandt. 1986. Smelt predation on slimy sculpin in Lake Ontario and its implications for lake trout food resources. 29th Conference on Great Lakes Research (IAGLR), University of Toronto. May 1986, Ontario, CANADA.
34. Magnuson, J.J., C.S. Clay and S.B. Brandt. 1986. The hierarchical characterization of the Gulf Stream front using sonars during Echo Front cruise 1985. Ocean Sciences Meeting. 13-17 January 1986, New Orleans, LA.
35. Mason, D.M., D.B. MacNeill, S.B. Brandt and J. Gannon. 1986. Interaction between alewife and larval yellow perch in a Lake Ontario embayment. 29th Conference on Great Lakes Research (IAGLR), University of Toronto. May 1986, Ontario, Canada.
36. Brandt, S.B. and R. O'Gorman. 1987. Predator-prey dynamics in Lake Ontario, Invited paper presented at the 30th International Conference on Great Lakes Research. 10-14 May 1987, Ann Arbor, MI.
37. Brandt, S.B. 1987. Patchiness in pelagic fish distributions: a help or hindrance to acoustic stock assessment. Presented at the International Symposium on Fisheries Acoustics. 22-26 June 1987, Seattle, WA.
38. Brandt, S.B. 1987. Underwater acoustics: a matter of scale and resolution. Invited paper to 117th Annual Meeting of the American Fisheries Society. 13-17 September 1987, Winston-Salem, NC.
39. Iancu, C. A. and S.B. Brandt. 1987. Bioenergetic evaluation of the feeding strategies of adult alewife in southeastern Lake Ontario. Amer. Fish Soc. N.Y. Chapter Annual Meeting. January 1987, Rome, NY.
40. MacNeill, D. and S.B. Brandt. 1987. Ontogenetic shifts in gill-raker morphology and prey capture efficiency of the alewife. American Fisheries Society, N.Y. Chapter Annual Meeting. January 1987, Rome, N.Y.

41. MacNeill, D.B. and S.B. Brandt. 1987. Ontogenetic shifts in gill-raker morphology and prey capture efficiency of the alewife. 30th International Conference on Great Lakes Research. 10-14 May 1987, Ann Arbor, MI.
42. Mason, D. and S.B. Brandt. 1987. Impact of alewife on larval yellow perch survival and growth. Paper presented at the 30th International Conference on Great Lakes Research. 10-14 May, 1987, Ann Arbor, MI.
43. Unger, P.A., S.B. Brandt and G. Yogis. 1987. Acoustic assessment of fish abundances in small lakes: effects of fish and zooplankton distributions. American Fisheries Society, N.Y. Chapter Annual Meeting. January 1987, Rome, NY.
44. Unger, P.A., S.B. Brandt and G.A. Yogis. 1987. Acoustic assessment of fish abundance in small lakes. International Symposium on Fisheries Acoustics. 22-26 June 1987, Seattle, WA.
45. Urban, T., S. Madon and S.B. Brandt. 1987. Juvenile smelt (*Osmerus mordax* diet in Lake Ontario. American Fisheries Society, N.Y. Chapter Annual Meeting. January 1987, Rome, NY.
46. Urban, T.P. and S.B. Brandt. 1987. Resource partitioning by juvenile smelt and juvenile alewife in Lake Ontario. 30th International Conference on Great Lakes Research. 10-14 May 1987, Ann Arbor, MI.
47. Brandt, S.B., P.A. Unger, D.M. Mason, R.L. Argyle, L. Wells and D.J. Stewart. 1988. Measuring Fish Abundances in the Great Lakes: Is acoustics a sound approach? 31st International Conference on Great Lakes Research. 17-20 May 1988, Toronto, Ontario, CANADA.
48. Unger, P.A., S.B. Brandt and D.M. Mason. 1988. Hydroacoustic estimates of fish sizes in Lake Michigan. Annual meeting of the American Society of Limnology and Oceanography. 12-16 June 1988, Boulder, CO.
49. Mason, D.M. and S.B. Brandt. 1988. Influence of predation on larval yellow perch survival in Lake Ontario. Invited paper, 12th Annual Larval Fish Conference, 25-28 June 1988, Ann Arbor, MI.
50. Stewart, D.J. and S.B. Brandt. 1988. Modeling and bioacoustics: Building the foundation for ecosystem oriented management of Great Lakes Fishes. Invited paper to 118th Annual Meeting of the American Fisheries Society. 12-15 September 1988, Toronto, CANADA.
51. Brandt, S.B., D.M. Mason, R.L. Argyle and D.J. Stewart. 1988. System-level management of Great Lakes fishes: Is acoustics a sound approach? Annual meeting of the American Geophysical Union. 5-9 December, 1988, San Francisco, CA.

52. Brandt, S.B. 1988. Underwater acoustics: applications to fish ecology and fisheries management. Special Invited Seminar. University of Stockholm. 25 May 1988, Stockholm, SWEDEN.
53. Brandt, S.B. 1988. Overview of bioacoustics techniques and applications. Special Invited Seminar. Remote Sensing with Ocean and Ocean Resource Applications. Fisheries and Oceans Canada. 22 November 1988, Ottawa, Ontario, CANADA.
54. Brandt, S.B. 1988. Great Lakes forage abundance and size-spectrum. Invited paper to workshop on "Comparing production dynamics of the Lake Michigan and Lake Ontario Ecosystems". 1-2 December 1988, Syracuse, NY.
55. Brandt, S.B. 1988. Acoustic assessment of fish abundances and fish sizes in Lake Michigan. Keynote speaker, workshop on prey-fish abundance and dynamics in Lake Michigan. 22 September 1988, Milwaukee, WI.
56. Brandt, S.B. 1988. Application of underwater acoustics to fish studies in marine and freshwater systems. Special Invited Seminar. Office of Naval Research, Underwater Acoustics Division. 27 September 1988, Washington, D.C.
57. Brandt, S.B. 1988. Fish abundance estimation in the Chesapeake Bay: Is acoustics a sound approach? Annual Chesapeake Technical Conference. 26 February 1988, Lexington Park, MD.
58. Brandt, S.B. 1989. System-level management and production in the Great Lakes: Bioacoustics, bioenergetics and multi-lake comparisons. Guest seminar, Great Lakes Environmental Research Laboratory. 11 January 1989, Ann Arbor, MI.
59. Brandt, S.B. 1989. Applications of knowledge-based systems to fisheries management and acoustic abundance measures. Invited paper to NOAA Workshop on Knowledge-Based Systems and Marine Sciences, George Mason University. 21-24 May 1989, Fairfax, VA.
60. Mason, D.M. and S.B. Brandt. 1989. Applications of acoustic techniques to the study of fish populations in the Great Lakes and the Chesapeake Bay, Potomac River Chapter, American Fisheries Society Annual Meeting. 28-29 April 1989, Solomons, MD.
61. Brandt, S.B. 1989. Quantification of pelagic planktivores in the Great Lakes. Invited presentation to Workshop on Interactions of Limnological and Fisheries Research, Great Lakes Environmental Research Laboratory. 13-14 April 1989, Ann Arbor, MI. 1989.
62. Brandt, S.B. 1989. Biomass and production dynamics of pelagic planktivores in the Great Lakes. Invited presentation to Workshop on Lake Ontario Trophic Transfer (LOTT),

Canadian Center for Inland Waters. 28-29 June 1989, Burlington, Ontario, CANADA.

63. Sprules, W.G., S.B. Brandt, E. Jin, M. Munawar and D.J. Stewart. 1989. Patterns in the biomass size structure of the complete Lake Michigan pelagic community. Invited paper to the 32nd International Conference on Great Lakes Research. 29 May - 2 June 1989, Madison, WI.
64. McDonald, M.E., J.H. Selgeby, L.B. Crowder and S.B. Brandt. 1989. Forage fish dynamics in Lakes Michigan, Superior and Ontario: Patterns and processes. Invited paper to the 32nd International Conference on Great Lakes Research. 30 May - 2 June 1989, Madison, WI.
65. Brandt, S.B., V. Patrick, D.M. Mason, R.L. Argyle and L. Wells. 1989. Spatial and temporal patchiness and abundance of pelagic fishes in Lake Michigan. Invited paper to the 32nd International Conference on Great Lakes Research. 29 May - 2 June 1989, Madison, WI.
66. Brandt, S.B. 1989. Acoustic measures of patchiness, abundance and size of pelagic fishes. Invited paper to the 119th Annual Meeting of the American Fisheries Society. 7-12 September 1989, Anchorage, AK.
67. Brandt, S.B. 1989. Abundance and production of pelagic planktivores: A comparison between Lakes Ontario and Michigan. N.Y. Sea Grant Institute. 26-27 September 1989, Stony Brook, NY.
68. Sprules, W.G., S.B. Brandt, E. Jin and M. Munawar. 1990. Spatial and temporal patterns in structure of the Lake Michigan pelagic food web. Paper accepted for the Annual Meeting of the International Association for Great Lakes Research. 13-17 May 1990, Windsor, Ontario, CANADA.
69. Brandt, S.B. 1990. Hydroacoustics as a stock assessment technique in the Potomac River. NOAA Chesapeake Bay Stock Assessment Committee Annual Meeting. 16-17 January 1990, Virginia Institute of Marine Science, Gloucester Point, VA.
70. Mason, D.M. and S.B. Brandt. 1990. Diel patterns of pelagic fish distributions in Lake Michigan. Annual Meeting of the International Association for Great Lakes Research. 13-17 May 1990, Windsor, Ontario, CANADA.
71. Hartman, K.J., E.V. Patrick, D.M. Mason and S.B. Brandt. 1990. Abundance of bay anchovy (Anchoa mitchilli) in the mid-Chesapeake Bay. Annual Meeting of the American Society of Limnology and Oceanography. 10-14 June 1990, Williamsburg, VA.
72. Mason, D.M., E.V. Patrick, K.J. Hartman and S.B. Brandt. 1990. Spatial and temporal variability in the abundance and distribution of the pelagic biota in the Chesapeake

Bay. Annual Meeting of the American Society of Limnology and Oceanography. 10-14 June 1990, Williamsburg, VA.

73. Patrick, E.V., D.M. Mason and S.B. Brandt. 1990. Fish population flow: a description of time varying fish distribution from acoustic survey data. Annual Meeting of the American Society of Limnology and Oceanography. 10-14 June 1990, Williamsburg, VA.
74. Brandt, S.B. 1990. Acoustical scattering at thermal fronts: spatial scales versus thermal scales. Invited paper to the Annual Acoustical Society of America Conference. 20-25 May 1990, Penn State, University Park, PA.
75. Brandt, S.B., D.M. Mason, V. Patrick, K. Hartman, M. Klebasko and E. Houde. 1990. Trophic supply and demand assessment in the Chesapeake Bay. Chesapeake Research Consortium Symposium. December 1990, Baltimore, MD.
76. Munawar, M., S.B. Brandt, W.G. Sprules and D. Stewart. 1991. Lake Ontario trophic transfer (LOTT) study: a new multidisciplinary and multitrophic approach. Invited paper to 34th International Conference on Great Lakes Research. June 1991, Buffalo, NY.
77. Brandt, S.B., D.M. Mason and A.P. Goyke. 1991. Trophic supply and demand in Lake Ontario: system perspectives. Invited paper to 34th International Conference on Great Lakes Research. June 1991, Buffalo, NY.
78. Goyke, A.P., S.B. Brandt and D.M. Mason. 1991. Trophic supply and demand in Lake Ontario: distribution and abundance of pelagic planktivores. Invited paper to 34th International Conference on Great Lakes Research. June 1991, Buffalo, NY.
79. Hartman, K.J. and S.B. Brandt. 1991. Seasonal diets of juvenile striped bass, bluefish and weakfish in the Chesapeake Bay. Tidewater Chapter, American Fisheries Society. February 1991, MD.
80. Mason, D.M., S.B. Brandt, A.P. Goyke, V. Patrick and W.G. Sprules. 1991. Trophic supply and demand in Lake Ontario: the zooplankton - planktivore linkage. Invited paper to 34th International Conference on Great Lakes Research. June 1991, Buffalo, NY.
81. Brandt, S.B., D.M. Mason, A.P. Goyke, E.V. Patrick and D.J. Stewart. 1991. Trophic supply and demand in Lake Ontario: the planktivore - piscivore linkage. Invited paper to 34th International Conference on Great Lakes Research. June 1991, Buffalo, NY.
82. Stewart, D., P. Rand, S.B. Brandt and J. Haynes. 1991. Dynamics of salmonine predation in New York waters of Lake Ontario. Invited paper to 34th International Conference on Great Lakes Research. June 1991, Buffalo, NY.

83. Hartman, K.J. and S.B. Brandt. 1991. Trophic linkages, predation potential, and interactions between top predators in the mid-Chesapeake Bay. Annual Meeting of the American Fisheries Society. September 1991, San Antonio, TX.
84. Brandt, S.B. 1991. Spatially-explicit models of fish production: the integration of acoustics and bioenergetics. Invited paper to the Annual Meeting of the Acoustical Society of America. November 1991, Houston, TX.
85. Brandt, S.B. and E.V. Patrick. 1991. Acoustic Visualization and Information Retrieval. Invited presentation to Workshop on Acoustic assessments of demersal fishes. 26-30 August 1991, St. Johns, Newfoundland, Canada.
86. Brandt, S.B., D.M. Mason and E.V. Patrick. 1992. Spatially-explicit models of fish growth rate. Annual Meeting of the American Society of Limnology and Oceanography. February 1992, Santa Fe, NM.
87. Hartman, K.J. and S.B. Brandt. 1992. Trophic linkages of top predators in the Chesapeake Bay. Northeastern Division Meeting of the American Fisheries Society. May 1992, Norfolk, VA.
88. Brandt, S.B. 1992. Spatially-explicit fish bioenergetics models. Invited presentation to the Chesapeake Bay Program Workshop on Current Approaches for Modeling Estuaries Ecosystem Processes. 24-27 March 1992, St. Michaels, MD.
89. Brandt, S.B. 1992. Spatially-explicit models of fish production: Integration of acoustics and ecological models. Invited paper to the World Fisheries Congress. 4-9 May 1992, Athens, GREECE.
90. Hartman, K. and S.B. Brandt. 1992. Energetics and trophic linkages of top predators in the Chesapeake Bay. American Fisheries Society, Potomac Chapter. 2 April 1992, St. Michaels, MD.
91. Brandt, S.B. and J. Kirsch. 1992. Spatially-explicit models of fish growth rate and production. Invited paper, Annual Meeting of the American Fisheries Society. September 1992, Rapid City, SD.
92. Brandt, S.B. and K.J. Hartman. 1992. Innovative approaches using bioenergetics models: Future applications to fish ecology and management. Invited paper, Annual Meeting of the American Fisheries Society. September 1992, Rapid City, SD.
93. Brandt, S.B. and D.M. Mason. 1992. Functional features of fish feeding and growth in a pelagic landscape. Invited paper to GUTSHOP '92. 8-11 November 1992, Orcas Island, WA.

94. Goyke, A. and S.B. Brandt. 1992. Abundance and biomass of pelagic planktivores in Lake Ontario. 35th International Conference on Great Lakes Research. 31 May - 4 June 1992, Waterloo, Ontario, CANADA.
95. Munawar, M., S.B. Brandt, G. Sprules and D.S. Stewart. 1992. Lake Ontario Trophic Transfer (LOTT) study: An emergence of an ecosystemic and multi-disciplinary research strategy in the Great Lakes. 35th International Conference on Great Lakes Research. 31 May - 4 June 1992, Waterloo, Ontario, CANADA.
96. Brandt, S.B., D.M. Mason, A. Goyke, K.J. Hartman, J. Kirsch and J. Luo. 1993. Spatially-explicit ecological modeling of fish: underwater views of functional attributes of the aquatic habitat. Invited paper to the Second International Conference on Integrating GIS and Environmental Modeling. September 1993, Breckenridge, CO.
97. Mason, D.M., A. Goyke and S.B. Brandt. 1993. Lake Michigan's and Lake Ontario's capacity to support salmonine growth: a spatially explicit modeling approach. The 36th Conference, International Association for Great Lakes Research. June 1993, Green Bay, WI.
98. Hartman, K.J. and S.B. Brandt. 1993. Predatory demand in the Chesapeake Bay: Implications for management. Presented at the 123rd Annual Meeting of the American Fisheries Society. 29 August - 2 September, Portland, OR.
99. Luo, J. and S.B. Brandt. 1993. Modeling of bay anchovy (Anchoa mitchilli) production and consumption in Chesapeake Bay. 76th Annual Ecological Society of America Meeting. 31 July - 4 August, 1993, Madison, WI.
100. Brandt, S.B. 1994. Spatially-explicit models of production: coupling physical and biological structure in aquatic systems. Ocean Sciences Meeting. 21-25 February 1994, San Diego, CA.
101. Brandt, S.B. 1994. New approaches for understanding fish production and trophic relationships in large aquatic systems. Invited paper to the 37th Conference, International Association for Great Lakes Research. 5-9 June 1994, University of Windsor, Windsor, CANADA.
102. Brandt, S.B. and K.J. Hartman. 1994. Spatial analyses of piscivore growth: A new tool for fish management and ecological understanding. Annual meeting of the American Fisheries Society. 21-25 August 1994, Halifax, Nova Scotia, CANADA.
103. Luo, J., S.B. Brandt and C.F. Cerco. 1994. A 3-D spatially-explicit model of striped bass, Morone saxatilis, growth rate in Chesapeake Bay. Annual meeting of the Ecological Society of America. 8-11 August 1994, Knoxville, TN.
104. Luo, J., S.B. Brandt and P.J. Behr. 1994. Size and temperature dependence on the maximum consumption rate of white perch, Morone americana in Chesapeake Bay.

- 37th Conference, International Association for Great Lakes Research. June 1994, University of Windsor, Windsor, CANADA.
105. Hartman, K.J. and S.B. Brandt. 1994. Ontogenetic changes in habitat suitability of the Chesapeake Bay for striped bass and bluefish. Annual Meeting of American Fisheries Society. 21-25 August 1994, Halifax, Nova Scotia, CANADA.
 106. Brandt, S.B. 1994. What drives biological production: Linking the physics and chemistry to the biology. Keynote speaker, Great Lakes Coastal Ocean Processes Workshop. October, 1994. Milwaukee, WI.
 107. Luo, J. and S.B. Brandt. 1994. Virtual reality of planktivores: Are fish really size selective? International Council for the Exploration of the Sea (ICES). 20-24 September 1994, St. Johns, Newfoundland, CANADA.
 108. Brandt, S.B. 1995. Predator-prey interactions, bioenergetics and top-down control in estuarine systems. Invited paper to International Workshop on "Trends in Land-Use Water Quality and Fisheries", 14-20 May, 1995, Piran, SLOVENIA.
 109. Jech, J.M., S.B. Brandt, D. Einhouse, R. Kenyon, M. Kershner, C. Knight, K. Muth, S. Nepszy, D. Stewart, M. Turner and L. Witzel. 1995. Abundance, distribution and production of fishes in Lake Erie. International Association of Great Lakes Research (IAGLR). 28 May - 1 June 1995, Kellogg Center at Michigan State University, East Lansing, MI.
 110. Brandt, S.B. 1995. Fish bioenergetics models: Linkages to lower trophic levels and water quality models. Water Quality and Living Resources Modeling Workshop. 11-12 July, 1995, St. Michaels, MD.
 111. Hartman, K.J., J. Luo and S.B. Brandt. 1995. Spatial analyses of predator growth potential: Biotic and abiotic. National Meeting of American Fisheries Society. 25-31 August, 1995, Tampa, FL.
 112. Hartman, K.J., M. Gerken and S.B. Brandt. 1995. Field verification of a bioenergetics model for striped bass. National Meeting of American Fisheries Society. 25-31 August, 1995. Tampa, FL.
 113. Jech, J.M. A.P. Goyke and S.B. Brandt. 1995. Acoustic Identification of Fish in the North American Great Lakes. International Council for the Exploration of the Sea Symposium on Fisheries and Plankton Acoustics. 12-16 June, Aberdeen, SCOTLAND.
 114. Brandt, S.B. and J.M. Jech. 1995. Integrating Acoustics with Ecological Modeling: Making the Most of the Spatial Information in Acoustic Data. 1995. International Council for the Exploration of the Sea Symposium on Fisheries and Plankton Acoustics. 12-16, June. Aberdeen, SCOTLAND.

115. Brandt, S.B. 1995. Spatial Models of Fish Productivity. SCOPE Committee's workshop on Estuarine Synthesis. February, 1995, Irvine, CA.
116. Luo, J. and S.B. Brandt. 1995. Virtual reality of planktivores: Are fish really size selective? Annual meeting of the American Fisheries Society, 25-31 August, 1995, Tampa, FL.
117. Brandt, S.B. 1995. Getting the most out of acoustic data: Linking acoustics with spatially-explicit ecological models. Invited paper to Annual Meeting of the Acoustical Society of America. 26-30 November, 1995, St. Louis, MO.
118. Gerken, M., K.J. Hartman and S.B. Brandt. 1996. Hypoxia: To what degree does it affect striped bass growth and consumption. NY Great Lakes Research Conference, 12-13 January, 1996, Syracuse, NY.
119. Horne, J.K. and S.B. Brandt. 1996. Spatial modeling of aquatic habitat from a fish's perspective. Third International Conference on Integrating GIS and Environmental Modeling, 21-25 January, 1996, Santa Fe, NM.
120. Brandt, S.B. 1996. Spatial patterns and processes in aquatic systems. ASLO Ocean Sciences Meeting, 12-16 February 1996, San Diego, CA.
121. Luo, J., K.J. Hartman, S.B. Brandt, T.H. Rippeto and C.F. Cerco. 1996. Spatially-explicit carrying capacity of the Atlantic menhaden in the Chesapeake Bay: Linking 3-D water quality and fish bioenergetics models. ASLO Oceans Science Meeting, 12-16 February, 1996, San Diego, CA.
122. Brandt, S.B. 1996. Applications of underwater acoustics to fish ecology. Invited paper to the joint U.S.-India Conference on Underwater Acoustics. 8-15 March, 1996. Goa, INDIA.
123. Brandt, S.B. 1996. Spatial models of fish growth and predator-prey interactions. Queen's University. 28 March, 1996. Kingston, ON, CANADA.
124. Brandt, S.B. 1996. Acoustics and bioenergetic modeling approaches to evaluating fish habitat quality in Chesapeake Bay. Invited paper to New England Estuarine Research Conference. May 2, 1996. Millbrook, NY.
125. Brandt, S.B. 1996. Trophic Interactions in the Great Lakes. Annual meeting of the International Association for the Great Lakes Research, 26-19 May, 1996, Toronto, CANADA.
126. Luo, J. and S.B. Brandt. 1996. Virtual reality of foraging fish. Annual meeting of the International Association for the Great Lakes Research, 26-29 May, 1996, Toronto, CANADA.

127. Terra, M.E. and S.B. Brandt. 1996. Spatially-explicit models of walleye growth rate potential in Lake Erie. Annual meeting of the International Association for the Great Lakes Research, 26-29 May, 1996, Toronto, CANADA.
128. Brandt, S.B. 1996. Fish production in the Chesapeake Bay: Where do we stand? Invited paper to workshop on Economic Value of Chesapeake Bay Restoration. 11 July 1996. Baltimore, MD.
129. Brandt, S.B. 1996. New approaches for understanding food-web dynamics in the Great Lakes of North America. Invited poster to the International Symposium on "Exploring the Great Lakes of the World: Food-web dynamics, health and integrity." 14-19 July, 1996, Victoria Falls, ZIMBABWE.
130. Brandt, S.B., M.J. Jech and J. Luo. 1996. Spatial and Temporal Complexity in Aquatic Environments: a Key to Fluctuating Fisheries? World Fisheries Conference. Brisbane, AUSTRALIA. 28 July-2 August, 1996.
131. Brandt, S.B. 1996. Spatial models of fish growth in large aquatic systems. Invited seminar. Yigal Kinneret Limnological Lab, Tiberias, ISRAEL. 14 August, 1996.
132. Tyler, J.A., S.B. Brandt and D. Breitburg. 1996. Linking water quality to larval fish production: A spatially-explicit individual-based modeling approach. Annual meeting of the American Fisheries Society. 25-29 August, 1996, Dearborn, MI.
133. Weimer, M.J. and S.B. Brandt. 1996. Diet growth and bioenergetics of white perch: diel and seasonal dynamics. Annual meeting of the American Fisheries Society. 25-29 August, 1996, Dearborn, MI.
134. Kracker, L., J.K. Horne and S.B. Brandt. 1996. Three-dimensional modeling of fish habitat quality in aquatic systems. Annual meeting of the American Fisheries Society. 25-29 August, 1996, Dearborn, MI.
135. Tyler, J.A. and S.B. Brandt. 1996. Diel effects on habitat quality: Spatial and Temporal changes in growth rate potential. Annual Meeting of the Ecological Society of America. 11-15 August, 1996, Providence, RI.
136. Brandt, S.B. 1996. Spatial assessment of fish ecology and bioenergetics in large aquatic systems. Invited seminar, 13 November, 1996. SUNY-Stony Brook, NY.
137. Brandt, S.B., J.M. Jech, K. Barry, E. Demers, P. Klose and J. Luo. 1997. Spatial modeling of fish habitat quality: A tri-estuary comparison. 1997 ASLO Aquatic Sciences Meeting. February, 1997. Santa Fe, NM.
138. Hondorp, D.W., S.B. Brandt and J.K. Horne. 1997. The effect of model spatial resolution on estimates of planktivore consumption. Great Lakes Research Consortium

Student/Faculty Conference. February 7-8, 1997. SUNY College of Environmental Science and Forestry, Syracuse, NY.

139. Zhou, L., J.K. Horne, J.A. Tyler, J.M. Jech, J. Luo and S.B. Brandt. 1997. The effect of time scale on potential salmonid production in Lake Ontario. 40th Annual Meeting of the International Association for Great Lakes Research. 1-5 June, 1997. Buffalo, NY.
140. Tyler, J.A., D.W. Hondorp, J.K. Horne, L. Zhou, J.M. Jech and S.B. Brandt. 1997. Comparing spatial and temporal measures of salmonid habitat quality in Lake Ontario. 40th Annual Meeting of the International Association for Great Lakes Research. 1-5 June, 1997. Buffalo, NY.
141. Hondorp, D.W., S.B. Brandt and J.K. Horne. 1997. The effects of model resolution on estimates of pelagic planktivory in Lake Ontario. 40th Annual Meeting of the International Association for Great Lakes Research. 1-5 June, 1997. Buffalo, NY.
142. Kracker, L.M., S.B. Brandt, J.K. Horne and J.M. Jech. 1997. A 3-dimensional view of fish distribution in Lake Ontario. 40th Annual Meeting of the International Association for Great Lakes Research. 1-5 June, 1997. Buffalo, NY.
143. Horne, J.K., J.A. Tyler, J.M. Jech, J. Luo, L. Zhou, B.R. Kerman and S.B. Brandt. 1997. Spatial and temporal variability in acoustic data: A comparison using Lake Ontario nekton. 40th Annual Meeting of the International Association for Great Lakes Research. June 1-5 1997. Buffalo, NY.
144. Brandt, S.B., J.M. Jech, E. Demers, K.L. Barry and P. Klose. 1997. Spatial modeling of fish habitat quality, growth, predation and ecological efficiency. Annual Meeting of the American Fisheries Society. August 24-28 1997. Monterey, CA.
145. Mason, D.M. and S.B. Brandt. 1997. Space, time and scale: New perspectives in fisheries ecology. Annual Meeting of the American Fisheries Society. August 24-28 1997. Monterey, CA.
146. Hondorp, D. and S.B. Brandt. 1997. Zooplanktivory in Lake Ontario: Patterns at high spatial resolution. Annual Meeting of the American Fisheries Society. August 24-28 1997. Monterey, CA.
147. Hartman, K.J., B. Nagy, J.M. Jech and S.B. Brandt. 1997. Hydroacoustic estimates of striped bass (*Morone saxatilis*) distribution and abundance in the Hudson River. Annual Meeting of the American Fisheries Society. August 24-28, 1997. Monterey, CA.
148. Tyler, J.A. and S.B. Brandt. 1997. Effects of environmental heterogeneity and habitat selection on fish growth. Annual Meeting of the American Fisheries Society. August 24-28, 1997. Monterey, CA.

149. Boynton, W.R., E. Houde, M. Kemp, M. Roman, J.M. Jech and S.B. Brandt. Interactions between physics and biology in the estuarine turbidity maximum of Chesapeake Bay, USA. International Council for the Exploration of the Sea. September 25-28 1997. Baltimore, MD,
150. Brandt, S.B., E. Demers, K.L. Barry, P. Klose and J.M. Jech. 1997. Fish production and habitat quality: A comparison among the Chesapeake, Delaware and Hudson River. Invited plenary talk to Biennial Meeting of the Estuarine Research Federation. October 12-16 1997. Providence, RI.
151. Demers, E., K.L. Barry, J.M. Jech and S.B. Brandt. 1998 Spatial and Temporal Distribution of Pelagic Fishes in Delaware Bay. 14th Biennial Estuarine Research Federation International Conference, 14-16 October 1997. Providence, RI.
152. Zhou, L., S.B. Brandt and J.K. Horne. 1998. Spatial and temporal variability of planktivore fish density: a hydroacoustic approach in Lake Ontario. American Society of Limnology and Oceanography, Ocean Sciences Meeting. San Diego, California. February 8-14. Abstract printed in EOS 79(1): 87.
153. Demers, E.K., M.A. Gerken, and S.B. Brandt. 1998 Effects of Low Dissolved Oxygen on Striped Bass Bioenergetics and Habitat Quality. Gulf of Mexico Hypoxia Workshop, 11-12 March 1998, Baton Rouge, LA.
154. Kracker, L.M., S.B. Brandt, J.K. Horne and J.M. Jech. 1998. Applying a landscape ecology approach to large lake ecosystems. United States Regional Meeting of the International Association for Landscape Ecology, 13th Annual Conference - Applications of Landscape Ecology in Natural Resource Management. 18-19 March 1998. Michigan State University, East Lansing, MI.
155. Jech, J.M., D. Hondorp and S.B. Brandt. 1998. Historical perspectives of fish distribution are measured with underwater acoustics during the Lake Ontario Trophic transfer study. Annual meeting of the International Association for Great Lakes Research. 18-22 May, Hamilton, Ontario, CANADA.
156. Roy, D. and S.B. Brandt. 1998. The application at hydroacoustics and the spatially explicit model in determining habit selection in western lake Ontario. Annual meeting of the International Association for Great Lakes Research. 18-22 May, Hamilton, Ontario, CANADA.
157. Walline, P.D., J.A. Tyler and S.B. Brandt. 1998. Managing competition in Lake Kinneret fisheries. International Association of Great Lakes Research. May 18-22, Hamilton, Ontario, CANADA.
158. Brandt, S.B. 1998. Fisheries Bioenergetics workshop using information to understand our ecosystem! Chesapeake Bay Program. 16 June. Annapolis, MD.

159. Tyler, J.A., W.G. Sprules and S.B.Brandt. 1998. Tracking Other Trophic Levels: Spatial Coherence Between fish and Zooplankton in Great Lakes Ecosystems. American Society of Limnology and Oceanography - Ecological Society of America Joint meeting. June 7-12, 1998. St. Louis, MO.
160. Brandt, S.B., E. Demers, M. Jech, K. Barry, P. Klose and D. Hondorp. 1998. Spatial processes in Large Aquatic Ecosystems: Merging Underwater Acoustics and Ecological Modeling. VII International Congress of Ecology, 19-25 July, Florence, ITALY.
161. Demers, E.K., M.A. Gerken, and S.B. Brandt. 1998. Effects of Low Dissolved Oxygen on Striped Bass Bioenergetics and Habitat Quality. Annual American Fisheries Society, 24-27 August 1998. Hartford, CT.
162. Pothoven, S.A., E. Demers, J.M. Jech, and S.B. Brandt. 1998. Diel, seasonal and inter-annual patterns in prey availability in the upper Chesapeake Bay: A striped bass perspective. Annual meeting of the American Fisheries Society, 24-27 August 1998. Hartford, CT.
163. Brandt, S.B., and J. Tyler. 1998. Climate Change: Implication for Fish Habitat Quality and Growth Potential. Invited Paper to the Annual meeting of the American Fisheries Society. 24-27 August 1998. Hartford, CT.
164. Barry, K.L., E.Demers, J.M. Jech and S.B Brandt. 1998. Spatial and Temporal Patterns of Weakfish Habitat Quality in Delaware Bay, Annual meeting of the American Fisheries Society. August 24-28, 1998. Hartford, CT
165. Walline, P.D., S.B. Brandt, J.M. Jech and J.A. Tyler. 1998. Spatial models of Lake Kinneret: A fish's perspective on the pelagic zone. Kinneret Limnological Laboratory, Israel Oceanographic and Limnological Research Symposium. 5-11 September. Kinneret, ISRAEL.
166. Tyler, J., P. Walline and S.B. Brandt. 1998. Lavnun abundance: How changes may affect Lake Kinneret's zooplankton. Limnology and Lake Management 2000. Sept. 6-11. Tiberias, ISRAEL.
167. Brandt S.B., M. Jech, E. Demers, K. Barry and D. Hondorp. 1998. Spatial Visualization and analyses: merging underwater acoustics and ecological modelling to view habitat from the fishes perspective. Invited paper to the ICES 1998 Annual Science Conference. 16-19 Sept., Cascais, PORTUGAL.
168. Brandt, S.B. 1998. Fisheries bioenergetics and ecosystem modelling. Invited paper to the Chesapeake Bay Stock Assessment Committee. 3 Dec., Colonial Beach, VA.

169. Brandt, S.B. 1999. Bioenergetics modeling in the Chesapeake Bay. Invited presentation to Chesapeake Bay Higher Trophic Level Modeling workshop. 18-20 May, Annapolis, MD.
170. Tyler, J.A., P.D. Walline, M. Gophen and S.B. Brandt. 1999. Seasonal changes in fish abundance and food consumption in Lake Kinneret. 8-12 August. Ecological Society of America. Spokane, WA.
171. Hondorp, D.W., S.B. Brandt and W. Gary Sprules. 1999. Spatially-explicit models of zooplankton production and fish consumption in western Lake Ontario. Annual Meeting of the American Fisheries Society. August 29– September 3 1999. Charlotte, N.C.
172. Pothoven, S.A., S.B. Brandt, T. Nalepa, M. Quigley. 1999. Diets of Lake Whitefish in southeastern Lake Michigan. 61st Midwest Fish and Wildlife Conference. Dec. 4-7. Chicago, IL.
173. Waline, P. and S.B. Brandt. 1999. Seasonal changes in fish abundance and food consumption in Lake Kinneret, August 8-12, 1999. Ecological Society of America. Spokane, WA.
174. Pothoven, S.A, D. Hondorp and S.B. Brandt. 2000. Effects of *Diporeia* declines on bloater and alewife in Lake Michigan. 62nd Midwest Fish and Wildlife Conference. Dec. 3-6, 2000. Minneapolis, MN.
175. Hondorp, D.W., S.A. Pothoven, T.F. Nalepa, and S.B. Brandt. 2000. Prey Fish Diets in southeastern Lake Michigan 1998-99. Annual Meeting of the Michigan Chapter of the American Fisheries Society. March 7, 2000. Michigan State University. East Lansing, MI.
176. Brandt, S.B. 2000. Great Lakes Research Priorities GLERL. Invited presentation to 43rd Annual Conference of the International Association for Great Lakes Research. 22-26 May 2000. Cornwall, CANADA.
177. Hondorp, D., S.A. Pothoven and S.B. Brandt. 2000. *Diporeia* declines in southeast Lake Michigan: prey fish diet dynamics in an affected site and predictions for the future. 43rd Annual Conference of the International Association for Great Lakes Research. 22-26 May 2000. Cornwall, CANADA
178. Brandt, S.B. 2000. Great Lakes Research Priorities. Invited presentation to 43rd Annual Conference of the International Association for Great Lakes Research. 22-26 May 2000. Cornwall, CANADA.
179. Brandt, S.B. 2001. Spatial scaling of fish and their habitat. Annual meeting of the Estuarine Research Federation. Nov. 4-8. St. Petersburg, FL.

180. Hondorp, D.W. and S.B. Brandt. 2001. Slimy Sculpin Feeding Mechanics. Annual International Association for Great Lakes Research. June 10-14 2001. Green Bay, WI.
181. Pothoven, S.A., Hondorp, D.W., Nalepa, T.F. and S.B. Brandt. 2001. Effect of *Diporeia* Declines on Lake Michigan Forage Fishes. Annual International Association for Great Lakes Research. June 10-14 2001. Green Bay, WI.
182. Pothoven, S.A., D.W. Hondorp and S.B. Brandt. 2003. Status of *Mysis* in southeastern Lake Michigan. 46th Conference on Great Lakes Research, IAGLR. June 22-26, 2003. Chicago, IL.
183. Hondorp, D.W. and S.B. Brandt. 2003. Comparative foraging behaviors of slimy and deepwater sculpin. 88th Annual Meeting of the Ecological Society of America. August 4, 2003. Savannah, GA.
184. Ludsin, S.A., X. Zhang, L.W. Florence, M.R. Roman and S.B. Brandt. 2003. A multi-scale analysis of factors that influence spatial distributions of bay anchovy in Chesapeake Bay. American Fisheries Society, Quebec City, Canada.
185. Florence, L.W., S.A Ludsin, W.C. Boicourt, M.R. Roman and S.B. Brandt. 2003. Effects of the Chesapeake Bay hydraulic control point on zooplankton and bay anchovy distributions. American Fisheries Society, Quebec City Canada.
186. Brandt, S.B. 2003. Invasive Species in the Great Lakes. Invited plenary, New York Chapter of American Fisheries Society. March. Corning, NY.
187. Hondorp, D.W., S.A. Pothoven, S.B. Brandt. 2003. Sculpin diet dynamics in southeast Lake Michigan. 2000-2002. 46th Conference on Great Lakes Research, IAGLR. June 22-26, 2003. Chicago, IL.
188. Costantini, M., E. Arneri, S. Fonda-Umani, A. Russo and S.B. Brandt. 2004. Does the Po River affect the distribution and production of anchovy in the Northern Adriatic Sea? Adriatic Sea Conference. 14-16 June. Venice, ITALY.
189. Pothoven, S.A., D.W. Hondorp, T.F. Nalepa and S.B. Brandt. 2004. Effects of *Diporeia* declines on diet condition and abundance of alewife, bloater, and rainbow smelt in Lake Michigan. Annual Meeting of the American Fisheries Society. August 23-26. Madison, WI.
190. Ludsin, S.A., D.M. Mason, S.B. Brandt, X. Zhang and M. Roman. 2004. A spatially explicit modeling evaluation of factors that regulate growth rate potential and distribution of bay anchovy in Chesapeake Bay. Invited paper, Annual Meeting of the American Fisheries Society. August 23-26. Madison, WI.

191. Hondorp, D.W., S.A. Pothoven, S.B. Brandt and C.P. Madenjian. 2004. Factors influencing habitat selection in Great Lakes sculpin. Annual Meeting of the American Fisheries Society. August 23-26. Madison WI.
192. O'Connor, D.V., C.P. Madenjian, S.A. Pothoven, P.J. Schneeberger, R.R. Rediske and S.B. Brandt. 2004. Laboratory evaluations of a lake whitefish bioenergetics model. Annual Meeting of the American Fisheries Society. August 23-26. Madison WI.
193. Madenjian, C.P., S.A. Pothoven, D.V. O'Connor, P.J. Schneeberger, R.R. Rediske and S.B. Brandt. 2004. Field evaluation of a lake whitefish bioenergetics model. Annual Meeting of the American Fisheries Society. August 23-26. Madison WI.
194. Florence, L.W., and S.B. Brandt. 2005. Education at NOAA's Center of Excellence for Great Lakes and Human Health. National Marine Educator's Association 2005 Annual Meeting. July 14. Kahului, HI.
195. Hondorp, D.W., S.A. Pothoven and S.B. Brandt. 2005. Diet and prey selection of sculpin in southeast Lake Michigan. 48th Annual Conference of the International Association for Great Lakes Research. May 23-27. Ann Arbor, MI.
196. Madenjian, C.P., D.W. Hondorp, T.J. Desorcie, and J.D. Holuszko. 2005. Sculpin community dynamics in Lake Michigan. International Association of Great Lakes Research. May 23-27. Ann Arbor, MI.
197. Brandt, S.B. and D. Scavia. 2005. Ecosystem forecasting: a focused scientific approach to ecosystem management. Invited paper to: 48th Annual meeting of the International Association for Great Lakes Research. May 23-27. Ann Arbor, MI.
198. Brandt, S.B. 2005. Ecosystem forecasting: Integrating science to reduce risks to human health. Invited paper to Biennial Meeting of the Estuarine Research Federation. October 17-20. Norfolk, VA.
199. Brandt, S.B., D. Schwab, T. Croley, D. Beletsky and R. Whitman. 2006. Ecosystem forecasting: Integrating science to reduce risks to human health. ASLO Ocean Sciences Annual Meeting. February 18-24. Honolulu, HI.
200. Ludsin, S.A., S.B. Brandt, H.A. Vanderploeg, M.R. Roman, W.C. Boicourt, D.G. Kimmel, and X. Zhang. 2006. Ecological responses of pelagic zooplankton and fish to seasonal hypoxia in the Northern Gulf of Mexico, Chesapeake Bay, and Lake Erie. ASLO Ocean Sciences Annual Meeting. February 18-24. Honolulu, HI.
201. Ludsin, S.A., S.B. Brandt, N. Hawley, and B.J. Eadie. 2006. The 2005 International Field Years on Lake Erie (IFYLE) Program. Lake Erie Millennium Network Meeting, March 1. Windsor, Ontario, CAN.

202. Ludsin, S.A., S.B. Brandt, N. Hawley, B.J. Eadie and M. Lansing. 2006. The 2005 International Field Years on Lake Erie (IFYLE) hypoxia program. International Association for Great Lakes Research Annual Meeting. May 25-30, Windsor, Ontario, CAN.
203. Ruberg, S.A., S.B. Brandt, H.A. Bootsma, S.J. Gordon, J.C. Lane, G.A. Meadows, T.C. Miller and R.W. Muzzi. 2006. Real-time environmental coastal observation network (RECON). International Association for Great Lakes Research Annual Meeting, May 25-30, Windsor, Ontario, CAN.
204. Brandt, S.B. 2006. Green Ship Initiative: Use of bio-fuels, lubricants and oils onboard research vessels. Invited plenary paper to 9th Annual Congressional Renewable Energy and Energy Efficiency Expo. 20 June, 2006. Washington, DC.
205. Brandt, S.B., T.E. Croley, D. Schwab, D. Beletsky, J. Dyble, G. Fahnenstiel, G. Leshkevich, S. Ruberg, S. Joseph and R. Sturtevant. 2006. Ecosystem forecasting: Linking biological and physical models to reduce the risks to human health in coastal areas. Invited paper to workshop on "Skill Assessment for Coupled Biological / Physical Models of Marine Systems". 10-13 July, Chapel Hill, NC.
206. Brandt, S.B. 2006. NOAA Center of Excellence for Great Lakes and Human Health. Ocean and Human Health Initiative Workshop. 18-20, January, Charleston, SC.
207. Brandt, S.B. 2006. The President's Executive Order for the Great Lakes. Invited paper to the Great Lakes Regional Coastal Zone Management Meeting. October 24-26, Traverse City, MI.
208. Brandt, S.B. 2006. NOAA's Great Lakes Research and Restoration Programs. Invited paper to the Great Lakes Regional Coastal Zone Management Meeting. October 24-26, Traverse City, MI.
209. Ludsin, S.A., S.B. Brandt, D.M. Mason, M.R. Roman, D.G. Kimmel, W.C. Boicourt, X. Zhang and C.M. Rae. 2007. Effects of hypoxia on the distribution and behavior of fish in the Northern Gulf of Mexico. ASLO 2007 Aquatic Sciences Meeting. February 4-9, Sante Fe, NM.
210. Brandt, S.B. and D.M. Mason. 2007. Integrating fisheries acoustics with new observation platforms, environmental stressors and models: Future research opportunities and challenges. Invited paper, 50th Anniversary Symposium, American Fisheries Research Biology. February 12-15, Seattle, WA.
211. Donahue, D. and S.B. Brandt. 2007. Green Research Vessel Initiatives: Development of biodiesel and bio-products in marine applications. Invited paper to POWER-GEN Renewable Energy and Fuels Conference. March 6-9, Las Vegas, NV.

212. Brandt, S.B. 2007. President's Executive Order for the Great Lakes. Invited paper. Regional Ocean Governance Workshop. March 19-23, Monterrey, CA.
213. Brandt, S.B., M. Costantini, S.A. Ludsin, D.M. Mason and W.C. Boicourt. 2007. Influence of hypoxia on fish growth rate potential in Chesapeake Bay. Invited presentation to Workshop on "Ecological Impacts of Hypoxia Living Resources". March 26-29, Bay St. Louis, MS.
214. Höök, T.O., S.A. Ludsin, S.A. Pothoven, J. Roberts, T.F. Nalepa, H.A. Vanderploeg, S.A. Ruberg, and S.B. Brandt. 2007. Influence of hypoxia on the ecology of zooplanktivorous and benthivorous fishes in Lake Erie's central basin. Invited presentation to Workshop on "Ecological Impacts of Hypoxia Living Resources". March 26-29, Bay St. Louis, MS.
215. Ludsin, S.A, W.C. Boicourt, S.B. Brandt, K. Hozyash, D.G. Kimmel, D.M. Mason, C.M. Rae, M.R. Roman, H. Zhang, and X. Zhang. 2007. Indirect effects of coastal hypoxia on planktivore habitat: Implications for pelagic food webs and fisheries. Invited presentation to Workshop on "Ecological Impacts of Hypoxia Living Resources". March 26-29, Bay St. Louis, MS.
216. Vanderploeg, H.A., S.A. Ludsin, S.A. Pothoven, T.O. Höök, J.J. Roberts, S.A. Ruberg, J.F. Cavaletto, J.R. Liebig, G.A. Lang and S.B. Brandt. 2007. Influence of hypoxia on the distribution, behavior, and foraging of zooplankton and planktivorous fish in central Lake Erie: Field observations and future research directions. Invited presentation to Workshop on "Ecological Impacts of Hypoxia Living Resources". March 26-29, Bay St. Louis, MS.
217. Brandt, S.B. 2007. The Great Lakes ecosystem: Can we forecast the future? Invited Plenary Speaker, Annual Meeting of the International Association for Great Lakes Research. May 28 – June 1, University Park, PA.
218. Ruberg, S.A., S.B. Brandt, R.W. Muzzi, N. Hawley, H.A. Bootsma, J. Gray and T.B. Bridgeman. 2007. Real-time Environmental Coastal Observation Network. Annual Meeting of the International Association for Great Lakes Research. May 28 – June 1, University Park, PA.
219. Vanderploeg, H.A., S.A. Pothoven, D.M. Mason, D.M. Krueger, J.F. Cavaletto, J.R. Liebig, G.A. Lang, K.L. Pangle, S.D. Peacor, S.B. Brandt, S.A. Ludsin, J.J. Roberts, T.O. Höök and R. Pichlova. 2007. Diel vertical migration and predatory interactions among zooplankton, the predatory invasive zooplankter *Bythotrephes longimanus*, and fish in large lakes: Observations with multiple technologies. Annual Meeting of the International Association for Great Lakes Research. May 28 – June 1, University Park, PA.
220. Zhang, X., L. Bahner, R.J. Wood, E.D. Houde, E.R. Annis, L.W. Harding, S.A. Ludsin and S.B. Brandt. 2007. Modeling the temporal and spatial variability in bay anchovy

- habitat suitability in Chesapeake Bay: Habitat matters. Estuarine Research Federation's 19th Biennial International Conference. November 4-8, Providence, RI.
221. Brandt, S.B. et al. 2008. Spatially-Explicit Growth Predictions to Assess Habitat Quality of Walleye during Hypoxia in Lake Erie. Annual Meeting of the International Association for Great Lakes Research, St. Petersburg, Canada
222. Brandt, S.B., M. Costantini, S.A. Ludsin, D.M. Mason, and H.A. Vanderploeg. 2008. Spatially-explicit growth predictions to assess habitat quality of walleye during hypoxia in Lake Erie. Oral presentation at the International Association for Great Lakes Research 51st Annual Conference on Great Lakes Research, Peterborough, ON. May 20.
223. Brandt, S.B., A.T. Adamack, H. Zhang, K.M. Boswell, S.A. Ludsin, D.M. Mason, M.R. Roman, and W.C. Boicourt. 2009. Broad- and Fine-scale Effects of Hypoxia on Pelagic Fish in the Northern Gulf of Mexico. Coastal and Estuarine Research Federation. Portland, OR. November 1-6, 2009.
224. Brandt, S. B. 2009. NGOMEX Program description and objectives. Northern Gulf of Mexico Hypoxia Workshop. Silver Spring, Md. Feb. 12-13, 2009. *Invited presentation.*
225. Brandt, S. B. 2009. Growth rate potential modeling of fish habitat quality. Invited presentation to: Northern Gulf of Mexico Hypoxia Workshop. Silver Spring, Md. Feb. 12-13, 2009.
226. Zhang, H., D. M. Mason, S.A. Ludsin, S.B. Brandt, A.T. Adamack, C. Stow, M.R. Roman, and W.C. Boicourt. 2009. Hypoxia Impacts on the Growth and Distribution of the Pelagic Fish in the Northern Gulf of Mexico. Coastal and Estuarine Research Federation. Portland, OR. November 1-6, 2009.
227. Sellinger, C., S. Brandt and T. Hunter. 2009. Forecasting Beach Closures Using Statistical Methods. Oceans and Human Health Meeting. October, 6 -8, Seattle, Washington. *Invited presentation.*
228. Brandt, S. 2009. Great Lakes Ecosystem Management. Louisiana Coastal Authority, April 7 – 9, 2009 Vicksburg Mississippi. *Invited presentation.*
229. Pangle, K.L., S. Pothoven, H.A. Vanderploeg, T.O. Höök, S.B. Brandt and S.A. Ludsin. 2010. Hypoxia's impact on pelagic fishes: a tale of two planktivores. Ecological Society of America. Pittsburg, PA. August 1-6, 2010.
230. Brandt, S.B. and S. Kolesar. 2010. Effects of hypoxia on Growth rate potential of walleye in Lake Erie. Webinar presentation to ECOFORE Principal Investigators. April 22, 2010.

231. Brandt, S.B., U. Varanasi, and J. Trtanj, (Session Co-Chairs). 2010. Oceans and Human Health: Reducing Risks Through Prediction. From Observation to Prediction in the 21st Century. Ocean Sciences Meeting, Portland, OR. February 21-27, 2010. *Special session*.
232. Sellinger, C.E., S.B. Brandt, and T. Hunter. 2010. Forecasting Beach Closings and Conditions in the Great Lakes. Oceans and Human Health: Reducing Risks Through Prediction. From Observation to Prediction in the 21st Century. Ocean Sciences Meeting, Portland, OR. February 21-27, 2010. *Poster*.
233. Brandt, S. B., M. Roman, J. Pierson, S. Kolesar, B. Boicourt, C. Sellinger. 2011. How does hypoxia affect habitat quality of fishes? Advancing the Science of Limnology and Oceanography Aquatic Sciences Meeting. San Juan, Puerto Rico. February 13-18, 2011. *Invited presentation*.
234. Brandt, S. B., C. Sellinger, S. Kolesar, M. Roman, J. Pierson, B. Boicourt. 2011. How does hypoxia affect habitat quality of fishes? AEHMS 10 – The Aquatic Ecosystem Puzzle: Threats, Opportunities and Adaptation. Siena, Italy. June 13 – 15, 2011. *Poster*.
235. Adamack, A. T., M. A. Clouse, S. A. Ludsin, D. M. Mason, S. B. Brandt, H. Zhang. 2011. Effects of hypoxia on fish diets in the northern Gulf of Mexico. Advancing the Science of Limnology and Oceanography Aquatic Sciences Meeting. San Juan, Puerto Rico. February 13-18, 2011..
236. Brandt, S.B. 2011. Hypoxia Effects on Fishes in the Gulf of Mexico. 2nd Annual Gulf of Mexico Hypoxia Research Coordination Workshop. Bay St. Louis, MS. March 31 – April 1, 2011. *Invited oral presentation*.
237. Kolesar, S. E., J. J. Pierson, and J. Testa (Session Co-Chairs). 2011. Consequences of Hypoxia for Living Resources and Biogeochemical Cycles. Advancing the Science of Limnology and Oceanography Aquatic Sciences Meeting. San Juan, Puerto Rico. February 13-18, 2011. *Special session*.
238. Roman, M., J. Pierson, S. Brandt, S. Kolesar, C. Sellinger, J. Cowan, D. Mason, C. Stow, S. Sable, A. Adamack. 2011. CSCOR NGOMEX: Effects of hypoxia on production potential of ecologically and commercially important living resources in the northern Gulf of Mexico. Advancing the Science of Limnology and Oceanography Aquatic Sciences Meeting. San Juan, Puerto Rico. February 13-18, 2011. *Poster*.
239. Brandt, S. B., C. Sellinger, S. Kolesar, M. Roman, J. Pierson, B. Boicourt. 2011. How does hypoxia affect habitat quality of fishes? Annual Meeting of the Coastal and Estuarine Research Federation. Poster. Daytona, FL November 6 – 10, 2011.
240. Kimmel, D., S. Mitra, J. Snyder, B. McGlaughon, K. Scalise, M. roman, J. Pierson, G. Jahn, S. brandt and J. Montoya. 2011. Macondo-1 well oil-derived polycyclic

- aromatic hydrocarbons accumulated in mesozooplankton from the Northern Gulf of Mexico via trophic transfer. Annual Meeting of the Coastal and Estuarine Research Federation. Poster. Daytona, FL November 6 – 10, 2011.
241. Borberg, J. M. and S.B. Brandt. 2012. Engaging the academic research community in Oregon's coastal and marine spatial planning efforts. Ocean Sciences Meeting, Salt Lake City, UT, 20 – 24 February, 2012.
 242. Roman, M., S.B. Brandt, D. Elliot and J. Pierson. 2012. The impacts of hypoxia on ecologically and commercially important living resources in the northern Gulf of Mexico. NOAA NGOMEX Workshop. Bay St. Lewis, MS. March 2012.
 243. VanderWoude, A.J., D.M. Mason, H. Zhang, C. Stowe, A Adamack, K. de Musert, J.J. Pierson, M. R. Roman, S.B. Brandt, S. Kolesar and C. Sellinger. 2013. The effects of hypoxia on the food web of the Northern Gulf of Mexico: An Atlantis ecosystem modeling approach. ASLO 2013 Aquatic Sciences Meeting, 17-22 February, New Orleans, LA.
 244. Brandt, S. B., C. Sellinger, S. Kolesar and D. Jensen. 2013. Hypoxic impact on fish habitat quality: Winners and losers. ASLO 2013 Aquatic Sciences Meeting, 17-22 February, New Orleans, LA.
 245. Brandt, S. B. and C. Sellinger. 2013. Growth rate potential as a quantitative ecosystem indicator of habitat quality. Annual Meeting of PICES – North Pacific Marine Science Organization. October 11 – 20, Nanaimo, BC, CAN.
 246. Borberg, J., S. B. Brandt, J. Stein and T. Vann. 2013. Opportunities and challenges for policy makers, managers, and scientists in planning for and implementing Marine Spatial Planning. Biennial Conference of the Coastal and Estuarine Research Federation. Nov. 3 – 7. San Diego, CA
 247. Zhang, H., D. M. Mason, C. A. Stowe, A. Adamack, S. Brandt, X. Zhang, D. Kimmel, M. Roman, W. Boicourt, and S. Ludsin. 2013. Impact of Hypoxia on habitat quality of pelagic fishes in the Northern Gulf of Mexico. Biennial Conference of the Coastal and Estuarine Research Federation. Nov. 3 – 7. San Diego, CA
 248. Vander Woude, et al. 2013. An Atlantis ecosystem-based approach to model effects of hypoxia on the food web of the Northern Gulf of Mexico. CERF, 3 - 7 November, San Diego, CA
 249. Brandt, S.B. and C.S. Sellinger. 2013. Response of pelagic fishes to hypoxia in the Gulf of Mexico. NGOMEX all-pi meeting, November 3, San Diego, CA
 250. Brandt, S. B. 2014. Spatial Patterning of Habitat Quality for Pelagic Fish. Invited seminar. June 18. University of Maryland, Cambridge, Maryland.

251. Brandt, S. B. 2014. Fish responses to hypoxia. Hypoxia –OA Research Exchange annual meeting. May 28. Oregon State University, Corvallis, Oregon.
252. Brandt, S. B. 2014. Habitat Quality: A fishes perspective. Invited Plenary Speaker. October 28 – 30, 2014. Biennial Bay-Delta Science Conference, Sacramento, California.
253. Brandt, S.B. 2015. *Habitat Quality: Space and time perspectives from a pelagic fish*. Invited presentation, Department of Fisheries and Wildlife, Oregon State University, February, OSU
254. Brandt, S.B. 2015. Delta Independent Science Board: Looking back in 2014, forward to 2015. Invited presentation to Interagency Ecological Program Annual Workshop, March 18 – 20, Folsom, CA.
255. Brandt, S.B. 2015. Modeling Fish Habitat Quality. Invited plenary to Workshop on Integrated Environmental Modeling of Estuarine Systems. May 21 – 23, 2015, Davis, California.
256. Brandt, S. B. and C. E. Sellinger. 2015. Seafood Diet: Linking Fish Feeding to Habitat, Prey Availability and Bioenergetics in a Pelagic Predator. 145th Annual Meeting of the American Fisheries Society. August 16 – 21, Portland Oregon.
257. Brandt, S.B. 2015. Spatial Patterning of Habitat Quality for a Pelagic Fish. Invited presentation, University of Trieste, 28 September, 2015, Trieste, Italy.
258. Sellinger, C. E. and S.B. Brandt. 2015. Climate-driven oxygen and temperature conditions: Predictor of habitat quality for oceanic Chinook salmon? Biennial conference of the Coastal & Estuarine Research Federation (CERF), 8 – 12 November in Portland, Oregon.
259. Brandt, S. B., C. E. Sellinger, M. Roman and E. D. Houde. 2015. Winners and losers in hypoxic coastal habitats: Is temperature the key? Biennial conference of the Coastal & Estuarine Research Federation (CERF), 8 – 12 November in Portland, Oregon.
260. Brandt, S. B. and Sellinger, C. 2016. Assessing essential fish habitat for a marine pelagic fish. Annual Meeting of the American Fisheries Society (AFS) Annual Meeting, 21 – 25 August, Kansas City, Missouri.
261. Brandt, S. B. 2016. Science Strategies in Large Programs, Invited Panelist to The Science Enterprise Workshop: Supporting and Implementing Collaborative Science, 1 – 3 November, Davis, California.
262. Brandt, S. B. and Sellinger, C. 2016. Variability in North Pacific Ocean conditions: Assessing habitat-specific vital rates and thresholds for fishes. North Pacific Marine Science Organization (PICES) Annual Meeting, 9 – 15, November, San Diego, California,.

263. de Mutsert, K., Brandt, S., Campbell, M., Lewis, K., Laurent, A., Sellinger, C., Steenbeck, J., Buszowski, J., Cowen, J. H., and Christensen, V. 2017. Assessing effects of reduced nutrients and hypoxia on living resources in the Gulf of Mexico using a coupled ecosystem modeling approach. Association for the Sciences of Limnology and Oceanography (ASLO) Aquatic Sciences Meeting, 28 February – 3 March 2017, Honolulu, Hawaii.
264. Glaspie, C. N., S. B. Brandt and C. S. Sellinger. 2017. Linking North Pacific Chinook Salmon habitat quality with Fish Production in a Changing Climate. Oregon American Fisheries Society, 1 – 4 March, Bend, Oregon.
265. Brandt, S.B. 2017. Spatial Ecology of Pelagic Fishes. Invited Seminar to Fisheries and Wildlife Department Stream Team, Oregon State University, 13 March, Corvallis, Oregon.
266. Brandt, S.B., C.N. Glaspie and C. S. Sellinger. 2017. Defining energy landscapes to predict distribution and production of fish. Abstract submitted to Annual Meeting of Ecological Society of America, 6 – 11 August, Portland OR.