

US EPA ARCHIVE DOCUMENT

AED Bibliography (1990 to 2008)
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2008

Burgess, R.M., W.J. Berry, D.R. Mount, G.T. Ankley, D.S. Ireland, D.M. Di Toro, D.J. Hansen, J.A. McGrath, L.D. DeRosa, H.E. Bell, F.J. Keating, M.C. Reiley and C.S. Zarba. 2008. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Compendium of Tier 2 Values for Nonionic Organics. U.S. EPA. Office of Research and Development. National Health and Environmental Effects Research Laboratory. Atlantic Ecology Division, Narragansett, RI. Mid-Continent Ecology Division, Duluth, MN. Washington, D.C. EPA/600/R-02/016, Contribution No. AED-02-052.

Burns, C.E. and J. Gear. 2008. Effects of Habitat Loss on Populations of White-Footed Mice: Testing Matrix Model Predictions with Landscape-Scale Perturbation Experiments. *Landscape Ecology* 23:817-831. Contribution No. AED-07-048.

Campbell, D.E. 2008. Emery and Its Importance. Environmental Research Brief. US EPA, ORD, NHEERL, Atlantic Ecology Division, Narragansett, RI. EPA/600/S-08/003, Contribution No. AED-08-025.

Detenbeck, N.E. and D.A. Cincotta. 2008. Comparability of a Regional and State Survey: Effects on Fish IBI Assessment for West Virginia, U.S.A. *Hydrobiologia* 603: 279-300. Contribution No. AED-07-006.

Dettmann, E.H. 2008. Turnover Time. Sven Erik Jorgensen and Brian D. Fath (Editor-in-Chief), *Ecological Indicators*. Vol. 5 of *Encyclopedia of Ecology*, 5 vols. p. 3639-44. Oxford: Elsevier. Contribution No. AED-07-062.

Hale, S.S. and J.F. Heltsh. 2008. Signals From the Benthos: Development and Evaluation of a Benthic Index for the Nearshore Gulf of Maine. *Ecological Indicators*. V. 8: 338 - 350 Contribution No. AED-06-091.

Hinchey, E.K., M. Nicholson, R.N. Zajac and E.A. Irlandi. 2008. Preface: Marine and Coastal Applications in Landscape Ecology. *Landscape Ecology* 23:1-5. Contribution No. AED-07-025.

Hollister, J.W., P.V. August, J.F. Paul and H.A. Walker. 2008. Predicting Estuarine Sediment Metal Concentrations and Inferred Ecological Conditions: An Information Theoretic Approach. *J. Environ. Qual.* V. 37: 234 - 244. Contribution No. AED-07-013.

Hollister, J.W., P.V. August and J.F. Paul. 2008. Effects of Spatial Extent on Landscape Structure and Sediment Metal Concentration Relationships in Small Estuarine Systems of the United States' Mid-Atlantic Coast. *Landscape Ecol.* V. 23 : 91-106. Contribution No. AED-06-074.

King, J.W., J.B. Hubeny, C.L. Gibson, E. Laliberte, K.H. Ford, M.G. Cantwell, R.A. McKinney and P.G. Appleby. 2008. Anthropogenic Eutrophication of Narragansett Bay: Evidence from Dated Sediment Cores (Chapter 7). In: *Science for Ecosystem-based Management*. A. Desbonnet, B.A. Costa-Pierce (eds). Contribution No. AED-08-026.

Lussier, S.M., S.N. Dasilva, M. Charpentier, J.F. Heltsh, S.M. Cormier, D.J. Klemm, M. Chintala and S. Jayaraman. 2008. The Influence of Suburban Land Use on Habitat and Biotic Integrity of Coastal Rhode Island Streams. *Environmental Monitoring and Assessment* 139: 119-136. Contribution No. AED-06-068.

Meng, L., D.L. Taylor, J. Serbst and J.C. Powell. 2008. Assessing Habitat Quality of Mount Hope Bay and Narragansett Bay Using Growth, RNA:DNA, and Feeding Habits of Caged Juvenile Winter Flounder (*Pseudopleuronectes americanus* Walbaum). *Northeastern Naturalist* 15(1): 35-56. Contribution No. AED-05-095.

Morzillo, A.T., J.W. Hollister, A. Drew, M.E. Rocca, M.E. Baker, J.M. Bossenbroek and C.A. Mazzarella. 2008. A Young Scientist's Guide to Gainful Employment: Recent Graduates' Experiences and Successful Strategies. *Bulletin of the Ecological Society of America* 89(2): 193-203 Contribution No. AED-08-047.

Paul, J.F., H.A. Walker, W.B. Galloway, G.G. Pesch, D. Cobb, C.J. Strobel, J.K. Summers, M. Charpentier and J. Heltsh. 2008. Combining Existing Monitoring Sites with a Probability Survey Design-Examples from U.S. EPA's National Coastal Assessment. *Open Environmental & Biological Monitoring Journal* 1:16-25. Contribution No. AED-00-095.

Paul, J.F., S. Cormier, W.J. Berry, P. Kaufmann, R.L. Spehar, D. Norton, R. Cantilli, R. Stevens, W. Swietlik, and B. Jessup. 2008. Developing Water Quality Criteria for Suspended and Bedded Sediments. *Water Practice*. Vol. 2 No. 1. Contribution No. AED-08-038.

Peng, T.H., H. Lu, W.L. Wu, D.E. Campbell, G.S. Zhao, J.H. Zou and J. Chen. 2008. Should a Small Combined Heat and Power Plant (CHP) Open to Its Regional Power and Heat Networks? Integrated Economic, Energy, and Emery Evaluation of Optimization Plans for Jiufa CHP. *Energy*. V. 33 : 437 - 445. Contribution No. AED-08-031.

Remacha-Trivino, A., D.J. Borsary Horowitz, C. Dungan, X. Gual-Arnau, J. Gomez-Leon, L. Villamil and M. Gomez-Chiarri. 2008. Numerical Quantification of Perkinsus Marinus in the American Oyster Crassostrea Virginica (Gmelin, 1791) (Mollusca: Bivalvia) By Modern Stereology. *Journal of Parasitology* 94(1): 125-136. Contribution No. AED-08-048.

Ryba, S.A., J.L. Lake, J.R. Serbst, A.D. Libby and S. Ayvazian. 2008. Assessment of Caudal Fin Clip as a Non-Lethal Technique for Predicting Muscle Tissue Mercury Concentrations in Largemouth Bass. *Environmental Chemistry* 5:200-203. Contribution No. AED-07-110.

Wigand, C. 2008. Coastal Salt Marsh Community Change in Narragansett Bay in Response to Cultural Eutrophication. IN *Science for Ecosystem-based Management; Narragansett Bay in the 21st Century*. A. Desbonnet, B.A. Costa-Pierce, eds. New York; London: Springer. Chapter 17. pp. 499-521. Contribution No. AED-05-082.

Wigand, C. 2008. Examination of Below-Ground Structure and Soil Respiration Rates of Stable and Deteriorating Salt Marshes in Jamaica Bay (NY). *The Tidal Exchange*. Spring Issue, pg. 6. Contribution No. AED-08-005.

Wilson, B., J. Zhu, M.G. Cantwell and C.R. Olsen. 2008. Short-term Dynamics and Retention of Triclosan in the Lower Hudson River Estuary. *Marine Pollution Bulletin* 56: 1230-33. Contribution No. AED-08-074.

2007

Abdelrhman, M.A. 2007. Embayment Characteristic Time and Biology Via Tidal Prism Model. *Estuarine, Coastal and Shelf Science* v. 74: 643-656 Contribution No. AED-06-067.

Abdelrhman, M.A. 2007. Modeling Coupling Between Eelgrass *Zostera Marina* and Water Flow. *Marine Ecology Progress Series* 338: 81-96. Contribution No. AED-05-102.

Burgess, R.M., M.M. Perron, M.G. Cantwell, K.T. Ho, M.C. Pelletier, J.R. Serbst and S.A. Ryba. 2007. Marine Sediment Toxicity Identification Evaluation Methods for the Anionic Metals Arsenic and Chromium. *Environmental Toxicology and Chemistry* 26(1): 61-67 Contribution No. AED-06-019.

Burnett, K.G., L.J. Bain, W.S. Baldwin, G.V. Callard, S. Cohen, R.T. Di Giulio, D.H. Evans, M. Gomez-Chiarri, M.E. Hahn, C.A. Hoover, S.I. Karchner, F. Katoh, D.L. MacLatchy, W.S. Marshall, J.N. Meyer, D.E. Nacci, M.F. Oleksiak, B.B. Rees, T.D. Singer, J.J. Stegeman, D.W. Towle, P.A. Van Veld, W.K. Vogelbein, A. Whitehead, R.N. Winn and D.L. Crawford. 2007. *Fundulus* as the premier teleost model in environmental biology: Opportunities for new insights using genomics. *Comparative Biochemistry and Physiology, Part D* 2 (4): 257-286. Contribution No. AED-08-012.

Caffrey, J.M., M.C. Murrell, C. Wigand and R.A. McKinney. 2007. Effect of Nutrient Loading on Biogeochemical and Microbial Processes in a New England Salt Marsh. *Biogeochemistry* 82:251-264 Contribution No. AED-07-060.

Cantwell, M.G., J.W. King, R.M. Burgess and P.G. Appleby. 2007. Reconstruction of Contaminant Trends in a Salt Wedge Estuary with Sediment Cores Dated Using a Multiple Proxy Approach. *Marine Environmental Research* 64: 225-246 Contribution No. AED-06-050.

Driscoll, S.B.K. and R.M. Burgess. 2007. An Overview of the Development, Status, and Application of Equilibrium Partitioning Sediment Benchmarks for PAH Mixtures. *Human and Ecological Risk Assessment* 13:286-301 Contribution No. AED-07-070.

Gear, J. and C.E. Burns. 2007. Evaluating Effects of Low Quality Habitats on Regional Population Growth in *Peromyscus leucopus*: Insights from Field-Parameterized Spatial Matrix Models. *Landscape Ecology* 22:45-60 Contribution No. AED-05-084.

Ho, K.T., R.M. Burgess, D.R. Mount, T.J. Norberg-King and J.R. Hockett. 2007. Sediment Toxicity Identification Evaluation (TIE). Phases I, II, and III. Guidance Document. EPA/600/R-07/080, Contribution No. AED-06-108.

Hollister, J.W. and H.A. Walker. 2007. Beyond Data: Reproducible Research in Ecology and Environmental Sciences. *Frontiers in Ecology and the Environment* 5(1): 11-12 Contribution No. AED-07-003.

Lake, J.L., S.A. Ryba, J.R. Serbst, C.F. Brown and L. Gibson. 2007. Mercury and Stable Isotopes of Carbon and Nitrogen in Mink. *Environmental Toxicology and Chemistry*. v. 26 (12) : 2611 - 2619 Contribution No. AED-06-020.

Latimer, J.S., S.A. Rego, G. Cicchetti, C.E. Pesch, E.H. Dettmann, R.A. McKinney and M. Charpentier. 2007. The Relationship Between Land-Based Nitrogen Loading and Eelgrass Extent for Embayments in Southern New England: Initial Model Construction. EPA/600/R-07/021, Contribution No. AED-05-107.

Lu, H., D.E. Campbell, J. Chen, P. Qin, and H. Ren. 2007. Conservation and Economic Viability of Nature Reserves : An Emergy Evaluation of the Yancheng Biosphere Reserve. *Biological Conservation*. V. 139 : 415 - 438. Contribution No. AED-07-024.

Macaulay, J., L.M. Smith, V. Engle, L. Harwell, W.J. Berry, J. Hyland, M. Fulton, G. Lauenstein, P. Bourgeois and T. Heitmuller. 2007. Environmental Conditions in Northern Gulf of Mexico Coastal Waters Following Hurricane Katrina. EPA/600/R-07/063, Contribution No. AED-07-118.

McKinney, R.A., S.R. McWilliams and M.A. Charpentier. 2007. Habitat Characteristics Associated with the Distribution and Abundance of *Histrionicus histrionicus* (Harlequin Ducks) Wintering in Southern New England. *Northeastern Naturalist*. V.14 (2), pp.159 - 170. Contribution No. AED-06-024.

Nixon, S.W., B.A. Buckley, S.L. Granger, M. Entsua-Mensah, O. Ansa-Asare, M.J. White, R.A. McKinney and E. Mensah. 2007. Anthropogenic Enrichment and Nutrients in Some Tropical Lagoons of Ghana, West Africa. *Ecological Applications*. V. 17 (5) Supplement: S144 - S164 Contribution No. AED-07-117.

Paul, J.F., S. Cormier, W.J. Berry, P. Kaufmann., R.L. Spehar, D. Norton., R. Cantilli, R. Stevens., W. Swietlik, and B. Jessup., 2007. Developing Water Quality Criteria for Suspended and Bedded Sediments - Illustrative Example Application. U.S. EPA Office of Research and Development in: Research Triangle Park, NC. Contribution No. AED-07-116.

Rosenberg, R., E. Davey, J. Gunnarsson, K. Norling and M. Frank. 2007. Application of Computer-Aided Tomography to Visualize and Quantify Biogenic Structures in Marine Sediments. *Marine Ecology Progress Series* 331:23-34 Contribution No. AED-07-064.

Vermeire, T., W.R. Munns Jr., J. Sekizawa, G. Suter and G. Van Der Kraak. 2007. An Assessment of Integrated Risk Assessment. *Human and Ecological Risk Assessment* 13: 339-354. Contribution No. AED-07-098.

Walters, S. 2007. Modeling scale-dependent landscape pattern, dispersal, and connectivity from the perspective of the organism. *Landscape Ecol* v. 22 : 867-881 Contribution No. AED-06-007.

Wigand, C., R.A. McKinney, M.L. Cole, G.B. Thursby and an . 2007. Varying Stable Nitrogen Isotope Ratios of Different Coastal Marsh Plants and Their Relationships with Wastewater Nitrogen and Land Use in New England, USA.. *Environ Monit Assess* v. 131: 71-81. Contribution No. AED-05-029.

2006

Abdelrhman, M.A. 2006. A Method to Incorporate Ecology into Residence Time of Chemicals in Embayments: Local Effect Time. *Integrated Environmental Assessment and Management* 2(3): 247-252 Contribution No. AED-04-071.

Bright, D.S., D.L. Cooperrider and W.B. Galloway. 2006. Appreciative Inquiry in the Office of Research and Development: Improving the Collaborative Capacity of Organization. *Public Performance & Management Review* 29(3): 285-306 Contribution No. AED-05-108.

Burgess, R.M., S.A. Ryba, M.G. Cantwell, J.L. Gundersen, R. Tien and M.M. Perron. 2006. Interaction of Planar and Nonplanar Organic Contaminants With Coal Fly Ash: Effects of Polar and Nonpolar Solvent Solutions. *Environmental Toxicology and Chemistry* 25(8): 2028-2037 Contribution No. AED-05-023.

Cai, T.T., C.L. Montague and J.S. Davis. 2006. The Maximum Power Principle: An Empirical Investigation. *Ecological Modelling* 190:317-335 Contribution No. AED-03-078.

Campbell, D.E., K.T. Ho, J.C. Kurtz, V.D. Engle, M.C. Pelletier, N.E. Detenbeck, B.H. Hill, R.M. Burgess, K.T. Perez and V. Snarski. 2006. Conceptual Models and Methods to Guide Diagnostic Research. EPA, ORD, NHEERL, Narragansett, RI 600/R-06/024, Contribution No. AED-04-022.

Cantwell, M.G., J. King and R.M. Burgess. 2006. Temporal Trends of Aroclor 1268 in the Taunton River Estuary: Evidence of Early Production, Use and Release to the Environment. *Marine Pollution Bulletin* 52: 1090-1117 Contribution No. AED-06-047.

Caraco, N., J. Cole, S. Findlay and C. Wigand. 2006. Vascular Plants as Engineers of Oxygen in Aquatic Systems. *BioScience* 56(3):219-225 Contribution No. AED-06-058.

Chintala, M.M., C. Wigand and G.B. Thursby. 2006. Comparison of *Geukensia demissa* Populations in Rhode Island Fringe Salt Marshes With Varying Nitrogen Loads. *Marine Ecology Progress Series* 320: 101-108 Contribution No. AED-03-009.

Cicchetti, G., J.S. Latimer, S.A. Rego, W.G. Nelson, B.J. Bergen and L. Coiro. 2006. Relationships Between Near-Bottom Dissolved Oxygen and Sediment Profile Camera Measures. *Journal of Marine Systems* 62:124-141 Contribution No. AED-05-026.

Cicchetti, G. 2006. Fisheries in Mount Hope Bay: Notes on a Special Symposium from a Session Moderator. *Northeastern Naturalist* 13(Special Issue 4): 27-30 Contribution No. AED-03-095.

Cohen, S., J. M. Gomez-Chiarri and D.E. Nacci. 2006. Functional Implications of Major Histocompatibility (MH) Variation Using Estuarine Fish Populations. *Integrative and Comparative Biology* 46(6): 1016-1029 Contribution No. AED-06-110.

Cronin, T.M. and H.A. Walker. 2006. Restoring Coastal Ecosystems and Abrupt Climate Change. *Climatic Change* 74(4):369-376 Contribution No. AED-05-012.

Findlay, S., C. Wigand and W.C. Nieder. 2006. Submersed Macrophyte Distribution and Function in the Tidal Freshwater Hudson River. Chapter 17 In: *The Hudson River Estuary*, edited by Jeffrey S. Levinton and John R. Waldman, Cambridge University Press, NY, NY. pp. 230-241 Contribution No. AED-06-057.

Ford, S.E. and M.M. Chintala. 2006. Northward Expansion of a Marine Parasite: Testing the Role of Temperature Adaptation. *Journal of Experimental Biology and Ecology* 339: 226-235 Contribution No. AED-06-109.

Gutjahr-Gobell, R.E., G.E. Zaroogian, D.J. Borsay Horowitz, T.R. Gleason and L.J. Mills. 2006. Individual Effects of Estrogens on a Marine Fish, Cunner (*Tautoglabrus adspersus*), Extrapolated to the Population Level. *Ecotoxicology and Environmental Safety* 63:244-252 Contribution No. AED-04-029.

Hinchey, E.K., L.C. Schaffner, C.C. Hoar, B.W. Vogt and L.P. Batte. 2006. Responses of Estuarine Benthic Invertebrates to Sediment Burial: The Importance of Mobility and Adaptation. *Hydrobiologia* 556:85-98 Contribution No. AED-03-023.

Kurtz, J.C., N.D. Detenbeck, V.D. Engle, K.T. Ho, L.M. Smith, S.J. Jordan and D.E. Campbell. 2006. Classifying Coastal Waters: Current Necessity and Historical Perspective. *Estuaries and Coasts* 29(1): 107-123 Contribution No. AED-06-085.

Lake, J.L., S.A. Ryba, J.R. Serbst and A.D. Libby. 2006. Mercury in Fish Scales as an Assessment Method for Predicting Muscle Tissue Mercury Concentrations in Large Mouth Bass. *Arch. Environ. Contam. Toxicol.* 50: 539-544 Contribution No. AED-04-141.

Lu, H., D.E. Campbell, Z. Li and H. Ren. 2006. Emergy Synthesis of an Agro-forest Restoration System in Lower Subtropical China. *Ecological Engineering* 27:175-192 Contribution No. AED-05-080.

Lussier, S.M., R.W. Enser, S.N. Dasilva and M. Charpentier. 2006. Effects of Habitat Disturbance from Residential Development on Breeding Bird Communities in Riparian Corridors. *Environmental Management* 38(3):504-521 Contribution No. AED-04-132.

McKinney, R.A. and C. Wigand. 2006. A Framework for the Assessment of the Wildlife Habitat Value of New England Salt Marshes. U.S. EPA, Office of Research and Development, Washington, D.C. 600/R-06/132, Contribution No. AED-06-054.

McKinney, R.A., S.R. McWilliams and M.A. Charpentier. 2006. Waterfowl-habitat Associations During Winter in an Urban North Atlantic Estuary. *Biological Conservation* 132:239-249 Contribution No. AED-05-017.

McMillan, A.M., M.J. Bagley, S.A. Jackson and D.E. Nacci. 2006. Genetic Diversity and Structure of an Estuarine Fish (*Fundulus heteroclitus*) Indigenous to Sites Associated With a Highly Contaminated Urban Harbor. *Ecotoxicology* 15:539-548 Contribution No. AED-05-096.

Munns, W.R., Jr. 2006. Assessing Risks to Wildlife Populations from Multiple Stressors: Overview of the Problem and Research Needs. *Ecology and Society* 11(1):23. [online] URL: <http://www.ecologyandsociety.org/vol11/iss1/art23/> Contribution No. AED-04-125.

Pruell, R.J., B.K. Taplin, J.L. Lake and S. Jayaraman. 2006. Nitrogen Isotope Ratios in Estuarine Biota Collected Along a Nutrient Gradient in Narragansett Bay, Rhode Island, USA. *Marine Pollution Bulletin* 52:612-620 Contribution No. AED-03-099.

Ward, T.J., R.L. Boeri, C. Hogstrand, J.R. Kramer, S.M. Lussier, W.A. Stubblefield, D.C. Wyskiel and J.W. Gorsuch. 2006. Influence of Salinity and Organic Carbon on the Chronic Toxicity of Silver to Mysids (*Americamysis bahia*) and Silversides (*Menidia beryllina*). *Environmental Toxicology and Chemistry* 25(7):1809-1816 Contribution No. AED-06-087.

Wozniak, A.S., C.T. Roman, S.C. Wainright, R.A. McKinney and M. James-Pirri. 2006. Monitoring Food Web Changes in Tide-Restored Salt Marshes: A Carbon Stable Isotope Approach. *Estuaries and Coasts* 29(4):568-578 Contribution No. AED-06-111.

2005

Abdelrhman, M.A. 2005. Simplified Modeling of Flushing and Residence Times in 42 Embayments in New England, USA, with Special Attention to Greenwich Bay, Rhode Island. *Estuarine, Coastal and Shelf Science* 62(1-2):339-351. Contribution No. AED-04-006.

Adams, W.J., A.S. Green, W. Ahlf, S.S. Brown, G.A. Burton, B. Chadwick, M. Crane, R. Gouguet, K.T. Ho, C. Hogstrand, T.B. Reynoldson, A.H. Ringwood, J.D. Savitz and P.K. Sibley. 2005. Using Sediment Assessment Tools and a Weight-of-Evidence Approach. Chapter 5 in: Wenning, R.J., G.E. Batley, G.C. Ingersoll, and D.W. Moore, eds. *Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments*. Pensacola, Fla.: Society of Environmental Toxicology and Chemistry. pp. 163-225 Contribution No. AED-05-103.

Bastianoni, S., D.E. Campbell, S. Ludovico and E. Tiezzi. 2005. The Solar Transformity of Oil and Petroleum Natural Gas. *Ecological Modelling* 186: 212-220. Contribution No. AED-05-014.

Batley, G.E., R.G. Stahl, M.P. Babut, T.L. Bott, J.R. Clark, L.J. Field, K.T. Ho, D.R. Mount, R.C. Swartz and A. Tessier. 2005. Scientific Underpinnings of Sediment Quality Guidelines. Chapter 3 in: Wenning, R.J., G.E. Batley, C.G. Ingersoll, and D.W. Moore, eds. *Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments*. Pensacola, Fla.: Society of Environmental Toxicology and Chemistry. pp. 39-119. Contribution No. AED-05-101.

Bergen, B.J., W.G. Nelson, J. Mackay, D. Dickerson and S. Jayaraman. 2005. Environmental Monitoring of Remedial Dredging at the New Bedford Harbor, MA, Superfund Site. *Environmental Monitoring and Assessment* 111:257-275 Contribution No. AED-00-018.

Berry, W.J., T.S. Bridges, S.J. Ells, T.H. Gries, D.S. Ireland, E.M. Maher, C.A. Menzie, L.M. Porebski and J. Stronkhorst. 2005. Use of Sediment Quality Guidelines in Existing Assessment Frameworks. Chapter 10 in: Wenning, R.J., G.E. Batley, G.C. Ingersoll, and D.W. Moore, eds. *Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments*. Pensacola, Fla.: Society of Environmental Toxicology and Chemistry. pp. 383-428 Contribution No. AED-03-090.

Boese, B.L., B.D. Robbins and G.B. Thursby. 2005. Desiccation is a Limiting Factor for Eelgrass (*Zostera marina* L.) Distribution in the Intertidal Zone of a Northeastern Pacific (USA) Estuary. *Botanica Marina* 48:274-283 Contribution No. AED-06-017.

Bridges, T.S., W.J. Berry, S. Della Sala, P.B. Dorn, S.J. Ells, T.H. Gries, D.S. Ireland, E.M. Maher, C.A. Menzie, L.M. Porebski and J. Stronkhorst. 2005. A Framework for Assessing and Managing Risks from Contaminated Sediments. Chapter 6 in: Wenning, R.J., G.E. Batley, G.C. Ingersoll, and D.W. Moore, eds. *Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments*. Pensacola, Fla.: Society of Environmental Toxicology and Chemistry. pp. 227-266. Contribution No. AED-05-104.

Brown, B.S., N.E. Detenbeck and R. Eskin. 2005. How Probability Survey Data Can Help Integrate 305(B) and 303(D) Monitoring and Assessment of State Waters. *Environmental Monitoring and Assessment* 103(1-3):41-57 Contribution No. AED-02-081.

Burgess, R.M., M.C. Pelletier, J.L. Gundersen, M.M. Perron and S.A. Ryba. 2005. Effects of Different Forms of Organic Carbon on the Partitioning and Bioavailability of Nonylphenol. *Environmental Toxicology and Chemistry* 24(7):1609-1617. Contribution No. AED-04-046.

Burgess, R.M. 2005. Ammonia. Entry In: *Water Encyclopedia: Oceanography; Meteorology; Physics and Chemistry; Water Law; And Water History, Art, and Culture*. Lehar, J., (ed.). Hoboken, NJ: John Wiley & Sons, Inc. pp. 390 - 394. Contribution No. AED-02-056.

Cai, T.T., T.W. Olsen and D.E. Campbell. 2005. Protecting Environmental Welfare: Comparison of Emergetic and Economic Valuation. Chapter 9 In: *Emergy Synthesis 3: Theory and Applications of the Emergy Methodology*. Proceedings from the Third Biennial Emergy Conference, Gainesville, FL, November 2005 pp. 133-142 Contribution No. AED-04-002.

Campbell, D.E., S.L. Brandt-Williams and M.E.A. Meisch. 2005. Environmental Accounting Using Emergy: Evaluation of the State of West Virginia. Narragansett, RI: US EPA. Atlantic Ecology Division. EPA/600/R-05/006, Contribution No. AED-03-104.

Campbell, D.E. 2005. Emergy Analysis of the Cobscook Bay Ecosystem. In: Percy, J.A., A.J. Evans, P.G. Wells, and S.J. Rolston, eds. *The Changing Bay of Fundy: Beyond 400 Years*. Proceedings of the 6th Bay of Fundy Workshop, Cornwallis, Nova Scotia, September 29 - October 2, 2004. Environment Canada. Atlantic Region. Occasional Report No. 23. Gatineau, Quebec: Environment Canada. pp. 374-386. Contribution No. AED-05-003.

Campbell, D.E., S.L. Brandt-Williams and T.T. Cai. 2005. Current Technical Problems in Emergy Analysis. Chapter 10 In: Emergy Synthesis 3: Theory and Applications of the Emergy Methodology, Proceedings from the Third Biennial Emergy Conference, Gainesville, FL, November 2005 pp. 143-157 Contribution No. AED-04-060.

Campbell, D.E. 2005. Financial Accounting Methods to Further Develop and Communicate Environmental Accounting Using Emergy. Chapter 14 In: Emergy Synthesis 3: Theory and Applications of the Emergy Methodology. Proceedings from the Third Biennial Emergy Conference, Gainesville, FL November 2005. pp. 185-198 Contribution No. AED-04-059.

Chapman, P.M., W.J. Birge, R.M. Burgess, W.H. Clements, W.S. Douglas, M.C. Harrass, C. Hogstrand, D.D. Reible and A.H. Ringwood. 2005. Role of Sediment Quality Guidelines and Other Tools in Different Aquatic Habitats. Chapter 7 in: Wenning, R.J., G.E. Batley, G.C. Ingersoll, and D.W. Moore, eds. Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments. Pensacola, Fla.: Society of Environmental Toxicology and Chemistry. pp. 267-309. Contribution No. AED-05-105.

Chapman, P.M., W.J. Birge, R.M. Burgess, W.H. Clements, W.S. Douglas, M.C. Harrass, C. Hogstrand, D.D. Reible and A.H. Ringwood. 2005. Uncertainties in Assessments of Complex Sediment Systems. Chapter 17 in: Wenning, R.J., G.E. Batley, G.C. Ingersoll, and D.W. Moore, eds. Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments. Pensacola, Fla.: Society of Environmental Toxicology and Chemistry. pp. 687-744. Contribution No. AED-05-110.

Crimmins, D., E.K. Hinchey, M. Chintala, G. Cicchetti, C.F. Deacutis and D. Blidberg. 2005. Use of a Long Endurance Solar Powered Autonomous Underwater Vehicle (SAUV II) To Measure Dissolved Oxygen Concentrations in Greenwich Bay, Rhode Island, U.S.A.. Oceans 2005-Europe 2:896-901 Contribution No. AED-06-042.

Dettmann, E.H., L.B. Mason, J.S. Latimer, G. Cicchetti, D.J. Keith, L. Coiro, R.A. McKinney, S.A. Rego, M.A. Abdelrhman, B.J. Bergen, W.G. Nelson, A. Santos, M. Charpentier and E.K. Hinchey. 2005. Load-Response Relationships for Nitrogen and Chlorophyll a in Coastal Embayments. IN: 3rd International Nitrogen Conference Contributed Papers, Edited by Zhaoliang Zhu et al., Science Press USA, Inc., Monmouth Junction NJ. pp. 531-538 Contribution No. AED-04-137.

Di Toro, D.M., J.A. McGrath, D.J. Hansen, W.J. Berry, P. Paquin, R. Mathew, K.B. Wu and R.C. Santore. 2005. Predicting Sediment Metal Toxicity Using a Sediment Biotic Ligand Model: Methodology and Initial Application. Environmental Toxicology and Chemistry 24(10):2410-2427 Contribution No. AED-06-010.

Di Toro, D.M., W.J. Berry, R.M. Burgess, D.R. Mount, T.P. O'Conner and R.C. Swartz. 2005. Predictive Ability of Sediment Quality Guidelines Derived Using Equilibrium Partitioning. Chapter 13 in: Wenning, R.J., G.E. Batley, G.C. Ingersoll, and D.W. Moore, eds. Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments. Pensacola, Fla.: Society of Environmental Toxicology and Chemistry. pp. 557-588 Contribution No. AED-05-109.

Engler, R.M., E.R. Long, R.C. Swartz, D.M. Di Toro, C.G. Ingersoll, R.M. Burgess, T.H. Gries, W.J. Berry, G.A. Burton, T.P. O'Conner, P.M. Chapman, L.J. Field and L.M. Porebski. 2005. Chronology of the Development of Sediment Quality Assessment Methods in North America. Chapter 8 in: Wenning, R.J., G.E. Batley, G.C. Ingersoll, and D.W. Moore, eds. Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments. Pensacola, Fla.: Society of Environmental Toxicology and Chemistry. pp. 311-343. Contribution No. AED-05-106.

Franz, E.H. and D.E. Campbell. 2005. Vivantary Responsibility and Emergy Accounting. Chapter 17 In: Emergy Synthesis 3: Theory and Applications of the Emergy Methodology, Proceedings from the Third Biennial Emergy Conference, Gainesville, FL, November 2005 pp. 229-233 Contribution No. AED-04-078.

Gleason, T., W.R. Munns Jr., S. Bradbury, T. Henry, J. Nichols, A. Trebitz, J. Baker, S. Heppell and N. Schumaker. 2005. Wildlife Research Strategy. Research Triangle Park, NC: USEPA. Office of Research and Development. National Health and Environmental Effects Research Laboratory. EPA 600/R-04/050, Contribution No. AED-04-056.

Goodfellow, W.L., J. Brils, R.M. Burgess, J. Doi, P.J. Downey, D.L. Matthews, T.J. Norberg-King and B.M. Phillips. 2005. Wastewater Toxicity Identification Evaluations. Chapter 3 In: Norberg-King, Teresa J., et. al., eds. Toxicity Reduction and Toxicity Identification Evaluations for Effluents, Ambient Waters, and Other Aqueous Media. Society of Environmental Toxicology and Chemistry. pp. 59-92 Contribution No. AED-05-122.

Haebler, R.A. 2005. Marine Mammal Diseases: Pathogens and Processes. Chapter 23 in: Majumdar, S.K., J.E. Huffman, F.J. Brenner, and A.I. Panah, eds. Wildlife Diseases: Landscape Epidemiology, Spatial Distribution and Utilization of Remote Sensing Technology. Easton, PA: The Pennsylvania Academy of Science. pp. 330-344. Contribution No. AED-03-105.

Hansen, D.J., D.M. Di Toro, W.J. Berry, W.S. Boothman, R.M. Burgess, G.T. Ankley, D.R. Mount, J.A. McGrath, L.D. DeRosa, H.E. Bell, M.C. Reiley and C.S. Zarba. 2005. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Metal Mixtures (Cadmium, Copper, Lead, Nickel, Silver, and Zinc). Office of Research and Development, Washington, DC 600/R-02/011, Contribution No. AED-02-048.

Hinchey, E.K. and L.C. Schaffner. 2005. An Evaluation of Electrode Insertion Techniques for Measurement of Redox Potential in Estuarine Sediments. Chemosphere 59(5):703-710. Contribution No. AED-03-071.

Ho, K.T. and R.M. Burgess. 2005. Case Study 6.26: Unsuccessful Toxicity Identification and Evaluation Manipulations: Seawater Buffers and Sterilization Methods. In: Norberg-King, Teresa J. et al., eds. Toxicity Reduction and Toxicity Identification Evaluations for Effluents, Ambient Waters, and Other Aqueous Media. Society of Environmental Toxicology and Chemistry. pp. 312-318. Contribution No. AED-02-109.

Ireland, D.S. and K.T. Ho. 2005. Toxicity Tests for Sediment Quality Assessments. Chapter 1 in: den Besten, P.J. and M. Munawar, eds. Ecotoxicological Testing of Marine and Freshwater Ecosystems: Emerging Techniques, Trends, and Strategies. Boca Raton: Taylor & Francis. pp. 1-42. Contribution No. AED-03-036.

Lussier, S.M. and S.N. da Silva. 2005. Plant Invasions in Rhode Island Riparian Zones. Rhode Island Naturalist 12(2):1-5 Contribution No. AED-05-077.

Meng, L., G. Cicchetti and S. Raciti. 2005. Relationships Between Juvenile Winter Flounder and Multiple-Scale Habitat Variation in Narragansett Bay, Rhode Island. *Transactions of the American Fisheries Society* 134:1509-1519 Contribution No. AED-04-028.

Mills, L.J. and C. Chichester. 2005. Review of Evidence: Are Endocrine-Disrupting Chemicals in the Aquatic Environment Impacting Fish Populations? *Science of the Total Environment* 343(1-3):1-34. Contribution No. AED-04-076.

Nacci, D.E., L. Coiro, D.M. Wassenberg and R.T. Di Giulio. 2005. A Non-Destructive Technique to Measure Cytochrome P4501A Enzyme Activity in Living Embryos of the Estuarine Fish *Fundulus Heteroclitus*. In: *Techniques in Aquatic Toxicology, Volume 2*, Edited by Gary K. Ostrander, Taylor & Francis, Boca Raton, FL, pp. 209 - 225 Contribution No. AED-04-016.

Nacci, D.E., M.C. Pelletier, J.L. Lake, R. Bennett, J. Nichols, R.A. Haebler, J. Grear, A. Kuhn, J.L. Copeland, M. Nicholson, S. Walters and W.R. Munns Jr. 2005. An Approach to Predict Risks to Wildlife Populations from Mercury and Other Stressors. *Ecotoxicology* 14:283-293 Contribution No. AED-04-085.

Peters, E.C., K.L. Price and D.B. Horowitz. 2005. Histological Preparation of Invertebrates for Evaluating Contaminant Effects. Chapter 36 In: Ostrander, G.K. editor, *Techniques in Aquatic Toxicology, Volume 2*. CRC Press, FL pp. 653-686. Contribution No. AED-04-105.

Riposo, D. and S.L. Brandt-Williams. 2005. Quantifying the Role of Exports in Pennsylvania's Economy Using Emergy. Chapter 34. IN: *Emergy Synthesis 3: Theory and Applications of the Emergy Methodology*. Proceedings from the Third Biennial Emergy Conference, Gainesville, Florida. Brown, M.T., ed. Gainesville, FL.: The Center for Environmental Policy. pp. 435-442. Contribution No. AED-04-057.

Roark, S.A., M.A. Kelble, D.E. Nacci, D. Champlin, L. Coiro and S.I. Guttman. 2005. Population Genetic Structure and Tolerance to Dioxin-Like Compounds of a Migratory Marine Fish (*Menidia Menidia*) at Polychlorinated Biphenyl-Contaminated and Reference Sites. *Environmental Toxicology and Chemistry* 24(3):726-732 Contribution No. AED-04-013.

Roark, S.A., D.E. Nacci, L. Coiro, D. Champlin and S.I. Guttman. 2005. Population Genetic Structure of a Nonmigratory Estuarine Fish (*Fundulus heteroclitus*) Across a Strong Gradient of Polychlorinated Biphenyl Contamination. *Environmental Toxicology and Chemistry* 24(3):717-725 Contribution No. AED-04-014.

Stram, D.L., C. R. Kincaid and D.E. Campbell. 2005. Water Quality Modeling in the Rio Chone Estuary. *Journal of Coastal Research* 21(4): 797-810. Contribution No. AED-05-117.

Waller, W. T., H. A. Bailey, V. De Vlaming, K.T. Ho, J. W. Hunt, J.L. Miller, D.A. Pillard, C.D. Rowland and B.J. Venables. 2005. Ambient Water, Porewater, and Sediment. Chapter 4 In: Norbert-King, Teresa J., et. al. eds. *Toxicity Reduction and Toxicity Identification Evaluations for Effluents, Ambient Waters, and Other Aqueous Media*. Society of Environmental Toxicology and Chemistry. pp. 93-114 Contribution No. AED-05-123.

Wenning, R.J., W.J. Adams, G.E. Batley, W.J. Berry, W.J. Birge, T.S. Bridges, G.A. Burton, P.M. Chapman, W.S. Douglas, R.M. Engler, C.G. Ingersoll, D.W. Moore, R.G. Stahl and J.Q. Word. 2005. Executive Summary. Chapter 2 in: Wenning, R.J., G.E. Batley, G.C. Ingersoll, and D.W. Moore, eds. *Use of Sediment Quality Guidelines and Related Tools for the Assessment of Contaminated Sediments*. Pensacola, Fla.: Society of Environmental Toxicology and Chemistry. pp. 11-38. Contribution No. AED-05-100.

2004

Berry, W.J., W.S. Boothman, J.R. Serbst and P.A. Edwards. 2004. Predicting the Toxicity of Chromium in Sediments. *Environmental Toxicology and Chemistry* 23(12):2981-2992. Contribution No. AED-03-020.

Bradley, M.P. and F.W. Kutz. 2004. Major Monitoring Networks: A Foundation to Preserve, Protect, and Restore. Chapter 27 in: Wiersma, G.B., ed. *Environmental Monitoring*. Boca Raton: CRC Press. pp. 606-630. Contribution No. AED-03-084.

Bradley, M.P., R. Hanson and E.S. Walbeck. 2004. Innovative Environmental Education Contributes to Improved Management Practices in the Mid-Atlantic Region of the United States. *Environmental Monitoring and Assessment* 94(1-3):205-215. Contribution No. AED-03-093.

Bradley, M.P. and E.R. Smith. 2004. Using Science to Assess Environmental Vulnerabilities. *Environmental Monitoring and Assessment* 94(1-3):1-7. Contribution No. AED-03-114.

Bradley, P., E. Walbeck and J. Ghiloni. 2004. Proceedings - Aging Americans: Impacts on Ecology and Environmental Quality Workshop. U.S. Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division, Narragansett, RI. EPA/600/R-05/028, Contribution No. AED-04-151.

Burgess, R.M., S.A. Ryba, M.M. Perron, R. Tien, L.M. Thibodeau and M.G. Cantwell. 2004. Sorption of 2,4'-Dichlorobiphenyl and Fluoranthene to a Marine Sediment Amended with Different Types of Black Carbon. *Environmental Toxicology and Chemistry* 23(11):2534-2544. Contribution No. AED-03-075.

Burgess, R.M., C. Chancy, D.E. Campbell, N. Detenbeck, V. Engle, B. Hill, K.T. Ho, M. Lewis, T.J. Norberg-King, M. Pelletier, K.T. Perez, L. Smith and V. Snarski. 2004. Classification Framework for Coastal Systems. U.S. EPA, Office of Research and Development, NHEERL, Research Triangle Park, NC EPA/600/R-04/061, Contribution No. AED-04-149.

Burgess, R.M., M.M. Perron, M.G. Cantwell, K.T. Ho, J.R. Serbst and M.C. Pelletier. 2004. Use of Zeolite for Removing Ammonia and Ammonia-Caused Toxicity in Marine Toxicity Identification Evaluations. *Archives of Environmental Contamination and Toxicology* 47(4):440-447. Contribution No. AED-03-111.

Burgess, R.M. and R. Lohmann. 2004. Role of Black Carbon in the Partitioning and Bioavailability of Organic Pollutants. *Environmental Toxicology and Chemistry* 23(11):2531-2533. Contribution No. AED-03-080.

- Cai, T.T., T.W. Olsen and D.E. Campbell. 2004. Ecological and Socioeconomic Benefits of Restoring AND-Impaired Streams: Emery-Based Valuation. Proceedings of IV Biennial International Workshop "Advances in Energy Studies". UNICAMP, Campinas, SP, Brazil, June 16-19, 2004. Pp. 207-216. Contribution No. AED-05-027.
- Cai, T.T., T.W. Olsen and D.E. Campbell. 2004. Maximum (Em)power: A Foundational Principle Linking Man and Nature. *Ecological Modelling* 178(1-2):115-119. Contribution No. AED-03-042.
- Campbell, D.E., M. Meisch, T. Demoss, J. Pomponio and M.P. Bradley. 2004. Keeping the Books for Environmental Systems: An Emery Analysis of West Virginia. *Environmental Monitoring and Assessment* 94(1-3):217-230. Contribution No. AED-03-092.
- Campbell, D.E. 2004. Evaluation and Emery Analysis of the Cobscook Bay Ecosystem. *Northeastern Naturalist* 11(Special Issue 2):355-424 Contribution No. AED-03-072.
- Campbell, D.E., T.T. Cai and T.W. Olsen. 2004. Ecosystem Health: Energy Indicators, Volume 2. In: *Encyclopedia of Energy*, Cutler J. Cleveland, ed., Elsevier Inc, pp. 131-142. Contribution No. AED-03-096.
- Campbell, D.E. 2004. Global Transition to Sustainable Development. In: Proceedings of IV Biennial International Workshop "Advances in Energy Studies", UNICAMP, Campinas, SP, Brazil, June 16-19, 2004. Pp. 11-28. Contribution No. AED-05-011.
- Cantwell, M.G. and R.M. Burgess. 2004. Variability of Parameters Measured During the Resuspension of Sediments with a Particle Entrainment Simulator. *Chemosphere* 56(1):51-58. Contribution No. AED-03-019.
- Chmura, G.L., A. Santos, V. Pospelova, Z. Spasojevic, R. Lam and J.S. Latimer. 2004. Response of Three Paleo-primary Production Proxy Measures to Development of an Urban Estuary. *Science of the Total Environment* 320(1):225-243. Contribution No. AED-04-086.
- Cole, M.L., I. Valiela, K.D. Kroeger, G.L. Tomasky, J. Cebrian, C. Wigand, R.A. McKinney, S.P. Grady and M.H. Carvalho da Silva. 2004. Assessment of a $\delta^{15}N$ Isotopic Method to Indicate Anthropogenic Eutrophication in Aquatic Ecosystems. *Journal of Environmental Quality* 33(1):124-132. Contribution No. AED-04-075.
- Davis, J.L., B. Nowicki and C. Wigand. 2004. Denitrification in Fringing Salt Marshes of Narragansett Bay, Rhode Island, USA. *Wetlands* 24(4):870-878. Contribution No. AED-05-032.
- Dettmann, E.H. and L.B. Mason. 2004. Relationships Between Total Nitrogen and Planktonic Chlorophyll a in Long Island Sound. In: Van Patten, M., ed. 6th Biennial Long Island Sound Research Conference Proceedings. Groton, CT: Connecticut Sea Grant. pp. 23-28. Contribution No. AED-03-005.
- Ferretti, J.A., D.F. Calesso, J.M. Lazorchak, T.J. Dolce, J. Arnold, W.L. Goodfellow, M.E. Smith and J.R. Serbst. 2004. Interlaboratory Comparison of a Reduced Volume Marine Sediment Toxicity Test Method Using the Amphipod *Ampelisca abdita*. *Environmental Toxicology and Chemistry* 23(3):632-637. Contribution No. AED-04-073.
- Hale, S.S., J.F. Paul and J.F. Heltshe. 2004. Watershed Landscape Indicators of Estuarine Benthic Condition. *Estuaries* 27(2):283-295. Contribution No. AED-03-016.
- Ho, K.T., R.M. Burgess, M.C. Pelletier, J.R. Serbst, H. Cook, M.G. Cantwell, S.A. Ryba, M.M. Perron, J. Lebo, J. Huckins and J. Petty. 2004. Use of Powdered Coconut Charcoal as a Toxicity Identification and Evaluation Manipulation for Organic Toxicants in Marine Sediments. *Environmental Toxicology and Chemistry* 23(9):2124-2131. Contribution No. AED-02-085.
- Hollister, J.W., M.L. Gonzalez, J.F. Paul, P.V. August and J.L. Copeland. 2004. Assessing the Accuracy of National Land Cover Dataset Area Estimates at Multiple Spatial Extents. *Photogrammetric Engineering & Remote Sensing* 70(4):405-414. Contribution No. AED-02-012.
- Larsen, P. F. and D.E. Campbell. 2004. Ecosystem Modeling in Cobscook Bay, Maine: A Summary, Perspective, and Look Forward. *Northeastern Naturalist* 11(Special Issue 2):425-438 Contribution No. AED-05-116.
- Lohmann, R., R.M. Burgess, M.G. Cantwell, S.A. Ryba, J.K. MacFarlane and P.M. Gschwend. 2004. Dependency of Polychlorinated Biphenyl and Polycyclic Aromatic Hydrocarbon Bioaccumulation in *Mya arenaria* on Both Water Column and Sediment Bed Chemical Activities. *Environmental Toxicology and Chemistry* 23(11):2551-2562. Contribution No. AED-05-005.
- McDonald, M., R. Blair, D. Bolgrien, B. Brown, J. Dlugosz, S. Hale, S. Hedtke, D. Heggem, L. Jackson, K. Jones, B. Levinson, R. Linthurst, J. Messer, A. Olsen, J. Paul, S. Paulsen, J. Stoddard, K. Summers and G. Veith. 2004. The U.S. Environmental Protection Agency's Environmental Monitoring and Assessment Program. Chapter 29 in: Wiersma, G.B., ed. *Environmental Monitoring*. Boca Raton: CRC Press. pp. 649-668. Contribution No. AED-05-015.
- McKinney, R.A. 2004. Habitat Relationships of Waterfowl Wintering in Narragansett Bay. *Rhode Island Naturalist* 11(2):3-6. Contribution No. AED-04-133.
- McKinney, R.A., S.M. Glatt and S.R. Williams. 2004. Allometric Length-Weight Relationships for Benthic Prey of Aquatic Wildlife in Coastal Marine Habitats. *Wildlife Biology* 10(4):241-249. Contribution No. AED-03-032.
- Meng, L., G. Cicchetti and M. Chintala. 2004. Nekton Habitat Quality at Shallow Water Sites in Two Rhode Island Coastal Systems. *Estuaries* 27(4):740-751. Contribution No. AED-03-073.

Pesch, G.G. and P.G. Wells. 2004. Tides of Change Across the Gulf: An Environmental Report on the Gulf of Maine and Bay of Fundy. Prepared for the Gulf of Maine Summit: Committing to Change, Fairmont Algonquin Hotel, St. Andrews, New Brunswick, Canada, October 26-29, 2004. Gulf of Maine Council on the Marine Environment and the Global Programme of Action Coalition for the Gulf of Maine. Contribution No. AED-05-002.

Pospelova, V., G.L. Chmura and H.A. Walker. 2004. Environmental Factors Influencing the Spatial Distribution of Dinoflagellate Cyst Assemblages in Shallow Lagoons of Southern New England (USA). Review of Palaeobotany and Palynology 128(1-2):7-34. Contribution No. AED-03-027.

Rust, A.J., R.M. Burgess, B.J. Brownawell and A.E. McElroy. 2004. Relationship Between Metabolism and Bioaccumulation of Benzo[a]pyrene in Benthic Invertebrates. Environmental Toxicology and Chemistry 23(11):2587-2593. Contribution No. AED-05-007.

Rust, A.J., R.M. Burgess, A.E. McElroy, M.G. Cantwell and B.J. Brownawell. 2004. Influence of Soot Carbon on the Bioaccumulation of Sediment-Bound Polycyclic Aromatic Hydrocarbons by Marine Benthic Invertebrates: An Interspecies Comparison. Environmental Toxicology and Chemistry 23(11):2594-2603. Contribution No. AED-05-008.

Rust, A.J., R.M. Burgess, A.E. McElroy, M.G. Cantwell and B.J. Brownawell. 2004. Role of Source Matrix in the Bioavailability of Polycyclic Aromatic Hydrocarbons to Deposit-Feeding Benthic Invertebrates. Environmental Toxicology and Chemistry 23(11):2604-2610. Contribution No. AED-05-010.

Thursby, G.B. and M.A. Abdelrhman. 2004. Growth of the Marsh Elder *Iva frutescens* in Relation to Duration of Tidal Flooding. Estuaries 27(2):217-224. Contribution No. AED-02-063.

Vinturella, A.E., R.M. Burgess, B.A. Coull, K.M. Thompson and J.P. Shine. 2004. Use of Passive Samplers to Mimic Uptake of Polycyclic Aromatic Hydrocarbons by Benthic Polychaetes. Environmental Science and Toxicology 38(4):1154-1160. Contribution No. AED-04-061.

Vinturella, A.E., R.M. Burgess, B.A. Coull, K.M. Thompson and J.P. Shine. 2004. Importance of Black Carbon in Distribution and Bioaccumulation Models of Polycyclic Aromatic Hydrocarbons in Contaminated Marine Sediments. Environmental Toxicology and Chemistry 23(11):2578-2586. Contribution No. AED-05-006.

Voparil, I.M., R.M. Burgess, L.M. Mayer, R. Tien, M.G. Cantwell and S.A. Ryba. 2004. Digestive Bioavailability to a Deposit Feeder (*Arenicola marina*) of Polycyclic Aromatic Hydrocarbons Associated with Anthropogenic Particles. Environmental Toxicology and Chemistry 23(11):2618-2626 Contribution No. AED-05-009.

Wigand, C., G.B. Thursby, R.A. McKinney and A.F. Santos. 2004. Response of *Spartina patens* to Dissolved Inorganic Nutrient Additions in the Field. Journal of Coastal Research Special Issue 45:134-149. Contribution No. AED-04-009.

2003

Adams, D. and S.J. Benyi. 2003. Sediment Quality of the NY/NJ Harbor System: A 5-Year Revisit 1993/4 - 1998; An Investigation under the Regional Environmental Monitoring and Assessment Program (REMAP). EPA/902-R-03-002, Contribution No. AED-03-116.

Adams, W.J., R.M. Burgess, G. Gold-Bouchot, L. Leblanc, K. Liber and B. Williamson. 2003. Porewater Chemistry: Effects of Sampling, Storage, Handling, and Toxicity Testing. Chapter 5 in: Porewater Toxicity Testing: Biological, Chemical, and Ecological Considerations. R.S. Carr and M. Nipper, eds. Pensacola, FL: Society of Environmental Toxicology & Chemistry. pp. 95-123. Contribution No. AED-03-086.

Berry, W.J., R.M. Burgess, D.J. Hansen, D.M. Di Toro, L.D. DeRosa, H.E. Bell, M.C. Reiley, F.E. Stancil Jr., C.S. Zarba, D.R. Mount and R.L. Spehar. 2003. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Dieldrin. Office of Research and Development. Washington, D.C. EPA/600/R-02/010, Contribution No. AED-02-047.

Berry, W.J., R.M. Burgess, D.J. Hansen, D.M. Di Toro, L.D. DeRosa, H.E. Bell, M.C. Reiley, F.E. Stancil Jr., C.S. Zarba, D.R. Mount and R.L. Spehar. 2003. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: Endrin. Narragansett, RI: USEPA. EPA/600/R-02/009, Contribution No. AED-02-046.

Burgess, R.M., M.C. Pelletier, K.T. Ho, J.R. Serbst, S.A. Ryba, A. Kuhn, M.M. Perron, P. Raczelowski and M.G. Cantwell. 2003. Removal of Ammonia Toxicity in Marine Sediment TIEs: A Comparison of *Ulva lactuca*, Zeolite, and Aeration Methods. Marine Pollution Bulletin 46(5):607-618. Contribution No. AED-02-029.

Burgess, R.M., M.J. Ahrens and C.W. Hickey. 2003. Geochemistry of PAHs in Aquatic Environments: Source, Persistence and Distribution. Chapter 3 in: PAHs: An Ecotoxicological Perspective. P.E.T. Douben, ed. Chichester, England: John Wiley & Sons. pp. 35-45. Contribution No. AED-02-024.

Burgess, R.M., M.J. Ahrens, C.W. Hickey, P.J. den Besten, D. ten Hulscher, B. van Hattum, J.P. Meador and P.E.T. Douben. 2003. An Overview of the Partitioning and Bioavailability of PAHs in Sediments and Soils. Chapter 7 in: PAHs: An Ecotoxicological Perspective. P.E.T. Douben, ed. Chichester, England: John Wiley & Sons. pp. 99-126. Contribution No. AED-02-084.

Burton, G.A., Jr., D.L. Denton, K.T. Ho and D.S. Ireland. 2003. Sediment Toxicity Testing: Issues and Methods. Chapter 5 in: Hoffman, D.J. et al. eds. Handbook of Ecotoxicology, 2nd. edition. Boca Raton: Lewis Publishers. pp. 111-150. Contribution No. AED-02-107.

Campbell, D.E. 2003. Emergy Analysis of the Prehistoric Global Nitrogen Cycle. Chapter 15 in Emergy Synthesis 2: Theory and Applications of the Emergy Methodology. Proceedings from the Second Biennial Emergy Analysis Research Conference, Gainesville, Florida, September, 2001. Brown, M.T., ed. Gainesville, FL: The Center for Environmental Policy. pp. 221-239. Contribution No. AED-02-017.

Campbell, D.E. 2003. A Note on the Uncertainty in Estimates of Transformities Based on Global Water Budgets. Chapter 25 in Emergy Synthesis 2: Theory and Applications of the Emergy Methodology. Proceedings from the Second Biennial Emergy Analysis Research Conference, Gainesville, Florida, September, 2001. Brown, M.T., ed. Gainesville, FL: The Center for Environmental Policy. pp. 349-353. Contribution No. AED-02-070.

Doe, K.G., G.A. Burton Jr. and K.T. Ho. 2003. Porewater Toxicity Testing: An Overview. Chapter 6 in: Porewater Toxicity Testing: Biological, Chemical, and Ecological Considerations. R.S. Carr and M. Nipper, eds. Pensacola, FL: Society of Environmental Toxicology & Chemistry. pp. 125-141 Contribution No. AED-03-087.

Hale, S.S., A.H. Miglarese, M.P. Bradley, T.J. Belton, L.D. Cooper, M.T. Frame, C.A. Friel, L.M. Harwell, R.E. King, W.K. Michener, D.T. Nicolson and B.G. Peterjohn. 2003. Managing Troubled Data: Coastal Data Partnerships Smooth Data Integration. Environmental Monitoring and Assessment 81(1-3):133-148. Contribution No. AED-01-083.

Hansen, D.J., D.M. Di Toro, J.A. McGrath, R.C. Swartz, D.R. Mount, R.L. Spehar, R.M. Burgess, R.J. Ozretich, H.E. Bell, M.C. Reiley and T.K. Linton. 2003. Procedures for the Derivation of Equilibrium Partitioning Sediment Benchmarks (ESBs) for the Protection of Benthic Organisms: PAH Mixtures. Narragansett, RI: USEPA. EPA/600/R-02/013, Contribution No. AED-02-050.

Hansen, L., S.F. Hedtke and W.R. Munns Jr. 2003. Integrated Human and Ecological Risk Assessment: A Case Study of Ultraviolet Radiation Effects on Amphibians, Coral, Humans, and Oceanic Primary Productivity. Human and Ecological Risk Assessment 9(1):359-377. Contribution No. AED-02-091.

Ho, K.T., A. Kuhn, R.M. Burgess, M. Pelletier, D.G. McGovern, J. Charles and L. Patton. 2003. Use of Marine Toxicity Identification and Evaluation Methods in Determining Causes of Toxicity to Fish in a Marine Aquarium Facility. North American Journal of Aquaculture 65:14-20. Contribution No. AED-01-080.

Hyland, J.L., W.L. Balthis, V.D. Engle, E.R. Long, J.F. Paul, J.K. Summers and R.F. Van Dolah. 2003. Incidence of Stress in Benthic Communities Along the U.S. Atlantic and Gulf of Mexico Coasts Within Different Ranges of Sediment Contamination from Chemical Mixtures. Environmental Monitoring and Assessment 81(1-3):149-161. Contribution No. AED-01-085.

Kiddon, J.A., J.F. Paul, H.W. Buffum, C.J. Strobel, S.S. Hale, D. Cobb and B.S. Brown. 2003. Ecological Condition of US Mid-Atlantic Estuaries, 1997-1998. Marine Pollution Bulletin 46(10):1224-1244. Contribution No. AED-03-058.

Latimer, J.S., W.S. Boothman, C.E. Pesch, G.L. Chmura, V. Pospelova and S. Jayaraman. 2003. Environmental Stress and Recovery: the Geochemical Record of Human Disturbance in New Bedford Harbor and Apponagansett Bay, Massachusetts (USA). The Science of the Total Environment 313:153-176. Contribution No. AED-02-020.

Latimer, J.S. and J. Zheng. 2003. The Sources, Transport, and Fate of PAHs in the Marine Environment. Chapter 2 in: PAHs: An Ecotoxicological Perspective. P.E.T. Douben, ed. Chichester, England: John Wiley & Sons. pp. 11-33. Contribution No. AED-02-030.

Lazorchak, J.M., B.H. Hill, B.S. Brown, F.H. McCormick, V. Engle, D.J. Lattier, M.J. Bagley, M.B. Griffith, A.F. Maciorowski and G.P. Toth. 2003. USEPA Biomonitoring and Bioindicator Concepts Needed to Evaluate the Biological Integrity of Aquatic Systems. Chapter 23 in: Bioindicators and Biomonitoring, B.A. Markert, A.M. Breure, and H.G. Zechmeister, eds. Amsterdam: Elsevier. pp. 831-874. Contribution No. AED-02-080.

Lebo, J.A., J.N. Huckins, J.D. Petty, W.L. Cranor and K.T. Ho. 2003. Comparisons of Coarse and Fine Versions of Two Carbons for Reducing the Bioavailabilities of Sediment-Bound Hydrophobic Organic Contaminants. Chemosphere 50:1309-1317. Contribution No. AED-03-063.

Mills, L.J., R.E. Gutjahr-Gobell, D.B. Horowitz, N.D. Denslow, M.C. Chow and G.E. Zarogian. 2003. Relationship Between Reproductive Success and Male Plasma Vitellogenin Concentrations in Cunner, *Tautoglabrus adspersus*. Environmental Health Perspectives 111(1):93-99. Contribution No. AED-01-098.

Mitro, M.G. 2003. Demography and Viability Analyses of a Diamondback Terrapin Population. Canadian Journal of Zoology 81(4):716-726. Contribution No. AED-02-087.

Mount, R.D., G.T. Ankley, K.V. Brix, W.H. Clements, D.G. Dixon, A. Fairbrother, C.W. Hickey, R.P. Lanno, C.M. Lee, W.R. Munns Jr., R.K. Ringer, J.P. Stavely, C.M. Wood, R.J. Erickson and P.V. Hodson. 2003. Effects Assessment. In: Reevaluation of the State of the Science for Water Quality Criteria Development, M.C. Reiley, W.A. Stubblefield, W.J. Adams, D.M. Di Toro, P.V. Hodson, R.J. Erickson, and F.J. Keating, Jr., eds. Pensacola, FL: SETAC Press. pp. 53-118. Contribution No. AED-03-097.

Munns, W.R., Jr., R. Kroes, G. Veith, G.W. Suter II, T. Damstra and M.D. Waters. 2003. Approaches for Integrated Risk Assessment. Human and Ecological Risk Assessment 9(1):267-272. Contribution No. AED-02-032.

Munns, W.R., Jr., G.W. Suter II, T. Damstra, R. Kroes, L.W. Reiter and E. Marafante. 2003. Integrated Risk Assessment: Results from an International Workshop. Human and Ecological Risk Assessment 9(1):379-386. Contribution No. AED-02-033.

Nipper, M., R.S. Carr, W.J. Adams, W.J. Berry, G.A. Burton Jr., K.T. Ho, D.D. MacDonald, R. Scroggins and P.V. Winger. 2003. Recommendations for Research Related to Biological, Chemical, and Ecological Aspects of Sediment Pore Water: The Way Forward. Chapter 13 in: Porewater Toxicity Testing: Biological, Chemical, and Ecological Considerations. R.S. Carr and M. Nipper, eds. Pensacola, FL: Society of Environmental Toxicology & Chemistry. pp. 285-292 Contribution No. AED-03-089.

Nipper, M., G.A. Burton Jr., D.C. Chapman, K.G. Doe, M. Hamer and K.T. Ho. 2003. Issues and Recommendations for Porewater Toxicity Testing: Methodological Uncertainties, Confounding Factors, and Toxicity Identification Evaluation Procedures. Chapter 7 in: Porewater Toxicity Testing: Biological, Chemical, and Ecological Considerations. R.S. Carr and M. Nipper, eds. Pensacola, FL: Society of Environmental Toxicology & Chemistry. pp. 143-162. Contribution No. AED-02-106.

Paul, J.F., J.L. Copeland, M. Charpentier, P.V. August and J.W. Hollister. 2003. Overview of GIS Applications in Estuarine Monitoring and Assessment Research. Marine Geodesy 26:63-72. Contribution No. AED-02-061.

Paul, J.F. 2003. Developing and Applying an Index of Environmental Integrity for the US Mid-Atlantic Region. *Journal of Environmental management* 67(2):175-185. Contribution No. AED-00-2186.

Pruell, R.J., B.K. Taplin and K. Cicchelli. 2003. Stable Isotope Ratios in Archived Striped Bass Scales Suggest Changes in Trophic Structure. *Fisheries Management and Ecology* 10(5):329-336. Contribution No. AED-01-043.

Scroggins, R., W.J. Berry, R.A. Hoke, K. Milligan, D.J. Morrisey and L. Porebski. 2003. Regulatory Applications of Porewater Toxicity Testing. Chapter 12 in: *Porewater Toxicity Testing: Biological, Chemical, and Ecological Considerations*. R.S. Carr and M. Nipper, eds. Pensacola, FL: Society of Environmental Toxicology & Chemistry. pp. 263-283 Contribution No. AED-03-088.

Serbst, J.R., R.M. Burgess, A. Kuhn, P.A. Edwards, M.G. Cantwell, M.C. Pelletier and W.J. Berry. 2003. Precision of Dialysis (Peeper) Sampling of Cadmium in Marine Sediment Interstitial Water. *Archives of Environmental Contamination and Toxicology* 45(3):297-305. Contribution No. AED-00-2180.

Stronkhorst, J., M.E. Schot, M.C. Dubbeldam and K.T. Ho. 2003. A Toxicity Identification Evaluation of Silty Marine Harbor Sediments to Characterize Persistent and Non-Persistent Constituents. *Marine Pollution Bulletin* 46:56-64. Contribution No. AED-02-104.

Suter II, G.W., W.R. Munns Jr. and J. Sekizawa. 2003. Types of Integration in Risk Assessment and Management, and Why They Are Needed. *Human and Ecological Risk Assessment* 9(1):273-279. Contribution No. AED-02-089.

Suter II, G.W., T. Vermeire, W.R. Munns Jr. and J. Sekizawa. 2003. Framework for the Integration of Health and Ecological Risk Assessment. *Human and Ecological Risk Assessment* 9(1):281-301. Contribution No. AED-02-090.

Wigand, C., R.A. McKinney, M.A. Charpentier, M.M. Chintala and G.B. Thursby. 2003. Relationships of Nitrogen Loadings, Residential Development, and Physical Characteristics with Plant Structure in New England Salt Marshes. *Estuaries* 26(6):1494-1504. Contribution No. AED-01-099.

Wigand, C., R.A. McKinney, M.M. Chintala, M.A. Charpentier and P.M. Groffman. 2003. Denitrification Enzyme Activity of Fringe Salt Marshes in New England (USA). *Journal of Environmental Quality* 33(3):1144-1151. Contribution No. AED-03-035.

Williamson, B. and R.M. Burgess. 2003. Sediment and Porewater Chemistry. Chapter 4 in: *Porewater Toxicity Testing: Biological, Chemical, and Ecological Considerations*. R.S. Carr and M. Nipper, eds. Pensacola, FL: Society of Environmental Toxicology & Chemistry. pp. 63-94. Contribution No. AED-03-085.

2002

Abdelrhman, M.A. 2002. Modeling How a Hurricane Barrier in New Bedford Harbor, Massachusetts, Affects the Hydrodynamics and Residence Times. *Estuaries* 25(2):177-196. Contribution No. AED-99-2115.

Abdelrhman, M.A. 2002. Effect of Eelgrass *Zostera marina* Canopies on Flow and Transport. *Marine Ecology Progress Series* 248:67-83. Contribution No. AED-98-2061.

Brown, B.S., W.R. Munns Jr. and J.F. Paul. 2002. An Approach to Integrated Ecological Assessment of Resource Condition: The Mid-Atlantic Estuaries as a Case Study. *Journal of Environmental Management* 66:411-427. Contribution No. AED-99-2084.

Bushek, D., S.E. Ford and M.M. Chintala. 2002. Comparison of In Vitro-Cultured and Wild-Type *Perkinsus marinus*. III. Fecal Elimination and its Role in Transmission. *Diseases of Aquatic Organisms* 51:217-225. Contribution No. AED-00-092.

Cantwell, M.G., R.M. Burgess and D.R. Kester. 2002. Release and Phase Partitioning of Metals from Anoxic Estuarine Sediments during Periods of Simulated Resuspension. *Environmental Science and Technology* 36:5328-5334. Contribution No. AED-01-084.

Chapman, P.M., K.T. Ho, W.R. Munns Jr., K. Solomon and M.P. Weinstein. 2002. Issues in Sediment Toxicity and Ecological Risk Assessment. *Marine Pollution Bulletin* 44(4):271-278. Contribution No. AED-02-011.

Chintala, M.M., D. Bushek and S.E. Ford. 2002. Comparison of In Vitro-Cultured and Wild-Type *Perkinsus marinus*. II. Dosing Methods and Host Response. *Diseases of Aquatic Organisms* 51:203-216. Contribution No. AED-00-091.

Cohen, S. 2002. Strong Positive Selection and Habitat-Specific Amino Acid Substitution Patterns in Mhc from an Estuarine Fish Under Intense Pollution Stress. *Molecular Biology and Evolution* 19(11):1870-1880. Contribution No. AED-01-001.

Drinkwater, K.F., A. Belgrano, A. Borja, A. Conversi, M. Edwards, C.H. Greene, G. Ottersen, A.J. Pershing and H.A. Walker. 2002. The Response of Marine Ecosystems to Climate Variability Associated With the North Atlantic Oscillation. In: *The North Atlantic Oscillation: Climatic Significance and Environmental Impact*. Geophysical Monograph 134. Hurrell, J.W., ed. Washington, DC: American Geophysical Union. pp. 211-234. Contribution No. AED-02-021.

Ford, S.E., M.M. Chintala and D. Bushek. 2002. Comparison of In Vitro-Cultured and Wild-Type *Perkinsus marinus*. I. Pathogen Virulence. *Diseases of Aquatic Organisms* 51:187-201. Contribution No. AED-00-090.

Gutjahr-Gobell, R.E., M. Huber, D.J. Borsay Horowitz, G.E. Zarogian and L.J. Mills. 2002. A Temperate Reef Fish, *Tautoglabrus adspersus*, (Walbaum) as a Potential Model Species for Laboratory Studies Evaluating Reproductive Effects of Chemical Exposure. *Environmental Toxicology and Chemistry* 21(2):380-389. Contribution No. AED-00-044.

Hale, S.S., M.M. Hughes, C.J. Strobel, H.W. Buffum, J.L. Copeland and J.F. Paul. 2002. Coastal Ecological Data from the Virginian Biogeographic Province, 1990-1993 (Abstract). *Ecology* 83(10):2942. Complete data set published in Ecological Archives at <http://esapubs.org/archive> accession number E083-057. Contribution No. AED-02-028.

Hale, S.S. 2002. Marine Bottom Communities of Block Island Waters. In: Paton, P.W., L.L. Gould, P.V. August, and A.O. Frost, eds. *The Ecology of Block Island*, Proceedings of the Rhode Island Natural History Survey Conference, October 28, 2000. Kingstown, RI: The Rhode Island Natural History Survey. pp. 131-149. Contribution No. AED-01-013.

Ho, K.T., R.M. Burgess, M.C. Pelletier, J.R. Serbst, S.A. Ryba, M.G. Cantwell, A. Kuhn and P. Raczelowski. 2002. An Overview of Toxicant Identification in Sediments and Dredged Materials. *Marine Pollution Bulletin* 44(4):286-293. Contribution No. AED-01-015.

Johnston, R.K., W.R. Munns Jr., P.L. Tyler, P. Marajh-Whitemore, K. Finkelstein, K. Munney, F.T. Short, A. Melville and S.P. Hahn. 2002. Weighing the Evidence of Ecological Risk from Chemical Contamination in the Estuarine Environment Adjacent to the Portsmouth Naval Shipyard, Kittery, Maine, USA. *Environmental Toxicology and Chemistry* 21(1):182-194. Contribution No. AED-99-2148.

Keith, D.J., H.A. Walker and J.F. Paul. 2002. Terrestrial Vegetation Greenness of the Lower Galveston Bay Watershed from Satellite Remote Sensing and its Relation to Water Use and the Salinity Regime of the Galveston Bay Estuary (USA). *International Journal of Remote Sensing* 23(5):905-916. Contribution No. AED-00-2100.

Keith, D.J., J.A. Yoder and S.A. Freeman. 2002. Spatial and Temporal Distribution of Coloured Dissolved Organic Matter (CDOM) in Narragansett Bay, Rhode Island: Implications for Phytoplankton in Coastal Waters. *Estuarine, Coastal and Shelf Science* 55:705-717. Contribution No. AED-01-042.

Kiddon, J.A., J.F. Paul, C.J. Strobel, B. Brown, H.W. Buffum and J.L. Copeland. 2002. Mid-Atlantic Integrated Assessment (MAIA) Estuaries 1997-98: Summary Report. Narragansett, RI: USEPA. Atlantic Ecology Division. EPA/620/R-02-03, Contribution No. AED-01-093.

Kuhn, A., W.R. Munns Jr., J.R. Serbst, P.A. Edwards, M.G. Cantwell, T.R. Gleason, M.C. Pelletier and W.J. Berry. 2002. Evaluating the Ecological Significance of Laboratory Response Data to Predict Population-Level Effects for the Estuarine Amphipod *Ampelisca abdita*. *Environmental Toxicology and Chemistry* 21(4):865-874. Contribution No. AED-99-2163.

McKinney, R.A., J.L. Lake, M.A. Charpentier and S.A. Ryba. 2002. Using Mussel Isotope Ratios to Assess Anthropogenic Nitrogen Inputs to Freshwater Ecosystems. *Environmental Monitoring and Assessment* 74:167-192. Contribution No. AED-00-021.

Meng, L., C.D. Orphanides and J.C. Powell. 2002. Use of a Fish Index to Assess Habitat Quality in Narragansett Bay, Rhode Island. *Transactions of the American Fisheries Society* 131:731-742. Contribution No. AED-01-049.

Miller, D.C., S.L. Poucher and L. Coiro. 2002. Determination of Lethal Dissolved Oxygen Levels for Selected Marine and Estuarine Fishes, Crustaceans, and a Bivalve. *Marine Biology* 140:287-296. Contribution No. AED-99-2153.

Munns, W.R., Jr., W.J. Berry and T.H. Dewitt. 2002. Toxicity Testing, Risk Assessment, and Options For Dredged Material Management. *Marine Pollution Bulletin* 44(4):294-302. Contribution No. AED-01-019.

Munns, W.R., Jr. and R. MacPhail. 2002. Extrapolation in Human Health and Ecological Risk Assessments: Proceedings of a Symposium. *Human and Ecological Risk Assessment* 8(1):1-5. Contribution No. AED-01-028.

Munns, W.R., Jr. 2002. Axes of Extrapolation in Risk Assessment. *Human and Ecological Risk Assessment* 8(1):19-29. Contribution No. AED-01-029.

Nacci, D.E., D. Champlin, L. Coiro, R.A. McKinney and S. Jayaraman. 2002. Predicting the Occurrence of Genetic Adaptation to Dioxinlike Compounds in Populations of the Estuarine Fish *Fundulus heteroclitus*. *Environmental Toxicology and Chemistry* 21(7):1525-1532. Contribution No. AED-00-080.

Nacci, D.E., M. Kohan, M. Pelletier and E. George. 2002. Effects of Benzo[a]pyrene Exposure on a Fish Population Resistant to the Toxic Effects of Dioxin-like Compounds. *Aquatic Toxicology* 57(4):203-215. Contribution No. AED-00-081.

Nacci, D.E., T.R. Gleason and W.R. Munns Jr. 2002. Evolutionary and Ecological Effects of Multi-Generational Exposures to Anthropogenic Stressors. *Human and Ecological Risk Assessment* 8(1):91-97. Contribution No. AED-99-2035.

Nacci, D.E., T.R. Gleason, R.E. Gutjahr-Gobell, M. Huber and W.R. Munns Jr. 2002. Effects of Chronic Stress on Wildlife Populations: A Population Modeling Approach and Case Study. Chapter 10 in: M.C. Newman, M.H. Roberts, Jr., and R.C. Hale, eds. *Coastal and Estuarine Risk Assessment*. Boca Raton: CRC Press. Contribution No. AED-00-082.

Paul, J.F., R.L. Comeleo and J.L. Copeland. 2002. Landscape Metrics and Estuarine Sediment Contamination in the Mid-Atlantic and Southern New England Regions. *Journal of Environmental Quality* 31(3):836-843 Contribution No. AED-00-085.

Pospelova, V., G.L. Chmura, W.S. Boothman and J.S. Latimer. 2002. Dinoflagellate Cyst Records and Human Disturbance in Two Neighboring Estuaries, New Bedford Harbor and Apponagansett Bay, Massachusetts (USA). *The Science of the Total Environment* 298:81-102. Contribution No. AED-01-034.

Ranasinghe, J.A., J.B. Frithsen, F.W. Kutz, J.F. Paul, D.E. Russell, R.A. Batiuk, J.L. Hyland, J. Scott and D.M. Dauer. 2002. Application of Two Indices of Benthic Community Condition in Chesapeake Bay. *Environmetrics* 13:499-511. Contribution No. AED-02-110.

Ryba, S.A. and R.M. Burgess. 2002. Effects of Sample Preparation on the Measurement of Organic Carbon, Hydrogen, Nitrogen, Sulfur, and Oxygen Concentrations in Marine Sediments. *Chemosphere* 48:139-147. Contribution No. AED-99-2085.

Thursby, G.B., M.M. Chintala, D. Stetson, C. Wigand and D. Champlin. 2002. A Rapid, Non-Destructive Method for Estimating Aboveground Biomass of Salt Marsh Grasses. *Wetlands* 22(3):626-630. Contribution No. AED-00-026.

White, P.A. 2002. The Genotoxicity of Priority Polycyclic Aromatic Hydrocarbons in Complex Mixtures. *Mutation Research* 515:85-98. Contribution No. AED-99-2137.

Zaroogian, G.E. and C.B. Norwood. 2002. Glutathione and Metallothionein Status in an Acute Response by *Mercenaria mercenaria* Brown Cells to Copper in Vivo. *Ecotoxicology and Environmental Safety* 53:285-292. Contribution No. AED-01-087.

2001

Barrera, J., R. Cantilli, I. Davis, E.H. Dettmann, J. Fisher, D.A. Flemer, T. Gardner, G. Gibson, D. Hart, J. Latimer, S. Libby, G. Smith, C. Siciliano and J. Word. 2001. Nutrient Criteria Technical Guidance Manual: Estuarine and Coastal Marine Waters. U.S. Environmental Protection Agency, Office of Water, Washington, DC. EPA-822-B-01-003, Contribution No. AED-02-060.

Bergen, B.J., W.G. Nelson, J.G. Quinn and S. Jayaraman. 2001. Relationships Among Total Lipid, Lipid Classes, and Polychlorinate BiPhenyl Concentrations in Two Indigenous Populations of Ribbed Mussels (*Geukensia demissa*) Over an Annual Cycle. *Environmental Toxicology and Chemistry* 20(3):575-581 Contribution No. AED-99-2165.

Boesch, D.F. and J.F. Paul. 2001. An Overview of Coastal Environmental Health Indicators. *Human and Ecological Risk Assessment* 7(5):1409-1417. Contribution No. AED-01-026.

Boothman, W.S., D.J. Hansen, W.J. Berry, D.L. Robson, A. Helmstetter, J.M. Corbin and S.D. Pratt. 2001. Biological Response to Variation of Acid-Volatile Sulfides and Metals in Field-Exposed Spiked Sediments. *Environmental Toxicology and Chemistry* 20(2):264-272 Contribution No. AED-99-2132.

Borsay Horowitz, D.J. and R.J. Haebler. 2001. Demonstration of *Aspergillus* sp. in Tissues of the Common Loon, *Gavia immer*: Incidence, Progression, and Severity. *The Journal of Histotechnology* 24(2):101-106 Contribution No. AED-99-2182.

Burgess, R.M., S.A. Ryba, M.G. Cantwell and J.L. Gundersen. 2001. Exploratory Analysis of the Effects of Particulate Characteristics on the Variation in Partitioning of Nonpolar Organic Contaminants to Marine Sediments. *Water Research* 35(18):4390-4404. Contribution No. AED-00-006.

Campbell, D.E. 2001. Proposal for Including What is Valuable to Ecosystems in Environmental Assessments. *Environmental Science & Technology* 35:2867-2873 Contribution No. AED-98-1971.

Campbell, D.E. 2001. Book Review: Institutions, Ecosystems and Sustainability. *Ecosystem Health* 7(3):178-180. Contribution No. AED-01-086.

Campbell, D.E. 2001. The Problem of Valuing Nature's Goods and Services. *RINHewS* 8(1):3-4. Contribution No. AED-01-040.

Cantwell, M.G. and R.M. Burgess. 2001. Metal-Colloid Partitioning in Artificial Interstitial Waters of Marine Sediments: Influences of Salinity, pH, and Colloidal Organic Carbon Concentration. *Environmental Toxicology and Chemistry* 20(11):2420-2427. Contribution No. AED-00-011.

Chintala, M.M. and J.P. Grassle. 2001. Comparison of Recruitment Frequency and Growth of Surfclams, *Spisula solidissima* (Dillwyn, 1817), in Different Inner-shelf Habitats of New Jersey. *Journal of Shellfish Research* 20(3):1177-1186. Contribution No. AED-01-017.

Dettmann, E.H. 2001. Appendix C: Additional Information on Flushing in Estuaries. In: Barrera, J., et al. Nutrient Criteria Technical Guidance Manual: Estuarine and Coastal Marine Waters. Report No. EPA/822/B-01/003. Washington D.C.: U.S. Environmental Protection Agency, Office of Water. Contribution No. AED-02-059.

Dettmann, E.H. 2001. Effect of Water Residence Time on Annual Export and Denitrification of Nitrogen in Estuaries: A Model Analysis. *Estuaries* 24(4):481-490. Contribution No. AED-98-2079.

Fogg-Matarese, S., D.J. Borsay Horowitz and G. Kass-Simon. 2001. An Evaluation of Three Conventional Histological Techniques for Staining the Cerata of *Cratena pilata*. *The Journal of Histotechnology* 24(4):255-258. Contribution No. AED-01-091.

Folmar, L.C., G.R. Gardner, M.P. Schreiberman, L. Magliulo-Cepriano, L.J. Mills, G.E. Zaroogian, R.E. Gutjahr-Gobell, R.J. Haebler, D.B. Horowitz and N.D. Denslow. 2001. Vitellogenin-induced pathology in male summer flounder (*Paralichthys dentatus*). *Aquatic Toxicology* 51:431-441 Contribution No. AED-00-078.

Gleason, T.R. and D.E. Nacci. 2001. Risks of Endocrine-Disrupting Compounds to Wildlife: Extrapolating from Effects on Individuals to Population Response. *Human and Ecological Risk Assessment* 7(5):1027-1042. Contribution No. AED-00-098.

Gundersen, J.L. 2001. Separation of Isomers of Nonyphenol and Select Nonyphenol Polyethoxylates by High-Performance Liquid Chromatography on a Graphitic Carbon Column. *Journal of Chromatography A*. 914:161-166 Contribution No. AED-00-2192.

Hale, S.S. 2001. Managing Data for the Environmental Monitoring and Assessment Program. *Maritimes* 43(2):14-16. Contribution No. AED-01-097.

Hale, S.S. 2001. Species Databases and the Bioinformatics Revolution. *RINHewS* 8(2):10-11. Contribution No. AED-02-002.

Hale, S.S. 2001. Data Are, Datta is. *Science Editor* 24(4):135 Contribution No. AED-01-004.

Hale, S.S. 2001. Coastal and Marine Databases. *Maritimes* 43(2):1-2. Contribution No. AED-01-096.

- Hanson, A.K., N.W. Tindale and M.A.R. Abdel-Moati. 2001. An Equatorial Pacific Rain Event: Influence on the Distribution of Iron and Hydrogen Peroxide in Surface Waters. *Marine Chemistry* 75:69-88 Contribution No. AED-96-X245.
- Jayaraman, S., R.J. Pruell and R.A. McKinney. 2001. Extraction of Organic Contaminants from Marine Sediments and Tissues Using Microwave Energy. *Chemosphere* 44:181-191 Contribution No. AED-98-2002.
- Johnston, R.K., W.R. Munns Jr. and D.E. Nacci. 2001. A Probabilistic Analysis to Determine Ecological Risk Drivers. In: *Environmental Toxicology and Risk Assessment: Science, Policy, and Standardization - Implications for Environmental Decisions: Tenth Volume, ASTM STP 1403*. B.M. Greenberg, R.N. Hull, M.H. Roberts, Jr., and R.W. Gensemer, eds. West Conshohocken, PA: American Society for Testing and Materials, pp 68-82. Contribution No. AED-00-025.
- Kuhn, A., W.R. Munns Jr., D. Champlin, R.A. McKinney, M. Tagliabue, J. Serbst and T. Gleason. 2001. Evaluation of the Efficacy of Extrapolation Population Modeling to Predict the Dynamics of *Americamysis bahia* Populations in the Laboratory. *Environmental Toxicology and Chemistry* 20(1):213-221 Contribution No. AED-98-2041.
- Lake, J.L., R.A. McKinney, F.A. Osterman, R.J. Pruell, J.A. Kiddon, S.A. Ryba and A.D. Libby. 2001. Stable Nitrogen Isotopes as Indicators of Anthropogenic Activities in Small Freshwater Systems. *Canadian Journal of Fisheries and Aquatic Science* 58:870-878. Contribution No. AED-99-2118.
- Lussier, S.M., H.A. Walker, G.G. Pesch, W.B. Galloway, R. Adler, M.A. Charpentier, R.L. Comeleo and J.L. Copeland. 2001. Strategies for Protecting and Restoring Rhode Island's Watersheds on Multiple Scales. *Human and Ecological Risk Assessment* 7(5):1483-1491. Contribution No. AED-00-075.
- Maltby, L., T.J. Kedwards, V.E. Forbes, K. Grasman, J.E. Kammenga, W.R. Munns Jr., A.H. Ringwood, J.S. Weis and S.N. Wood. 2001. Linking Individual-level Responses and Population-level Consequences. Chapter 2 in: *Ecological Variability: Separating Natural from Anthropogenic Causes of Ecosystem Impairment*. D.J. Baird and G.A. Burton, Jr., eds. Pensacola, FL: Society of Environmental Toxicology and Chemistry (SETAC), pp 27-82. Contribution No. AED-02-022.
- McDonald, M., R. Blair, J.J. Dlugosz, S.S. Hale, S. Hedtke, D. Heggem, L. Jackson, K. Jones, B. Levinson, A. Olsen, S. Paulsen, J. Stoddard, K. Summers and I.R. Vassiliev. 2001. Environmental Protection Agency's Environmental Monitoring and Assessment Program (EMAP) in the 21st Century. In: *Hydrological Science and Technology 2001 AIH Annual Meeting, 20th Anniversary and International Conference on Hydrologic Science: Challenges for the 21st Century*. October 14-17, 2001, Minneapolis, MN. Volume 18, no. 4, pp. 133-143. Contribution No. AED-04-088.
- McKinney, R.A., W.G. Nelson, M.A. Charpentier and C. Wigand. 2001. Ribbed Mussel Nitrogen Isotope Signatures Reflect Nitrogen Sources in Coastal Salt Marshes. *Ecological Applications* 11(1):203-214 Contribution No. AED-99-2124.
- Meng, L., J.C. Powell and B.K. Taplin. 2001. Using Winter Flounder Growth Rates to Assess Habitat Quality Across an Anthropogenic Gradient in Narragansett Bay, Rhode Island. *Estuaries* 24(4):576-584. Contribution No. AED-00-2185.
- Meng, L. and S.A. Matern. 2001. Native and Introduced Larval Fishes of Suisun Marsh, California: The Effects of Freshwater Flow. *Transactions of the American Fisheries Society* 130:750-765. Contribution No. AED-00-077.
- Mills, L.J., R.E. Gutjahr-Gobell, R.J. Haebler, D.J. Borsay Horowitz, S. Jayaraman, R.J. Pruell, R.A. McKinney, G.R. Gardner and G.E. Zaroogian. 2001. Effects of Estrogenic (o,p'-DDT; octylphenol) and Anti-androgenic (p,p'-DDE) Chemicals on Indicators of Endocrine Status in Juvenile Male Summer Flounder (*Paralichthys dentatus*). *Aquatic Toxicology* 52:157-176 Contribution No. AED-99-2074.
- Mitro, M.G. 2001. Ecological Model Testing: Verification, Validation, or Neither? *Bulletin of the Ecological Society of America* 82(4):235-237. Contribution No. AED-01-088.
- Nacci, D.E., S. Jayaraman and J. Specker. 2001. Stored Retinoids in Populations of the Estuarine Fish *Fundulus heteroclitus* Indigenous to PCB-Contaminated and Reference Sites. *Archives of Environmental Contamination and Toxicology* 40:511-518 Contribution No. AED-00-003.
- Paul, J.F., K.J. Scott, D.E. Campbell, J.H. Gentile, C.J. Strobel, R.M. Valente, S.B. Weisberg, A.F. Holland and J.A. Ranasinghe. 2001. Developing and Applying a Benthic Index of Estuarine Condition for the Virginian Biogeographic Province. *Ecological Indicators* 1:83-99. Contribution No. AED-00-2188.
- Paul, J.F. and T.B. DeMoss. 2001. Integration of Environmental Indicators for the U.S. Mid-Atlantic Region. *Human and Ecological Risk Assessment* 7(5):1555-1564. Contribution No. AED-00-096.
- Pechenik, J.A., T.R. Gleason, D. Daniels and D. Champlin. 2001. Influence of Larval Exposure to Salinity and Cadmium Stress on Juvenile Performance of Two Marine Invertebrates (*Capitella* sp. I and *Crepidula fornicata*). *Journal of Experimental Marine Biology and Ecology* 264:101-114. Contribution No. AED-01-006.
- Pechenik, J.A., R. Berard, D. Daniels, T.R. Gleason and D. Champlin. 2001. Influence of Lowered Salinity and Elevated Cadmium on the Survival and Metamorphosis of Trochophores in *Capitella* sp. I. *Invertebrate Biology* 120(2):142-148 Contribution No. AED-00-2191.
- Pelletier, M.C., K.T. Ho, M.G. Cantwell, A. Kuhn-Hines, S. Jayaraman and R.M. Burgess. 2001. Use of *Ulva lactuca* to Identify Ammonia Toxicity in Marine and Estuarine Sediments. *Environmental Toxicology and Chemistry* 20(12):2852-2859. Contribution No. AED-99-2086.
- Pesch, C.E. and J.H. Garber. 2001. Historical Analysis: a Valuable Tool in Community-Based Environmental Protection. *Marine Pollution Bulletin* 42(5):339-349. Contribution No. AED-00-002.
- Rock, B., L. Carter, H.A. Walker, J. Bradbury, L. Dingman and T. Federer. 2001. Climate Impacts on Regional Water. Chapter 6 In: *Preparing for a Changing Climate - The Potential Consequences of Climate Change and Variability: New England Regional Overview*. A Report of the New England Regional Assessment Group for the

US Global Change Program, August 2001, University of New Hampshire Institute for the Study of Earth, Oceans, and Space, Durham, NH. pp. 49-55. Contribution No. AED-01-089.

Rock, B., L. Carter, H.A. Walker, J. Bradbury, S.L. Dingman and C.A. Federer. 2001. Water Resources and Potential Climate Change Impacts. Chapter 6 in New England Regional Assessment Group. Preparing for a Changing Climate: The Potential Consequences of Climate Variability and Change. Durham, NH: University of New Hampshire, Institute for the Study of Earth, Oceans, and Space. pp. 63-83. Contribution No. AED-01-045.

Strobel, C.J. and T. Heitmuller. 2001. National Coastal Assessment Field Operations Manual. U.S. Environmental Protection Agency, Office of Research and Development, National Health and Environmental Effects Research Laboratory, Gulf Ecology Division, Gulf Breeze, FL. 620/R-01/003, Contribution No. AED-01-103.

VanHoewyk, D., C. Wigand and P.M. Groffman. 2001. Endomycorrhizal Colonization of *Dasiphora floribunda*, a Native Plant Species of Calcareous Wetlands in Eastern New York State, USA. *Wetlands* 21(3):431-436. Contribution No. AED-99-2088.

Walker, H.A. 2001. Understanding and Managing the Risks to Health and Environment from Global Atmospheric Change: A Synthesis. *Human and Ecological Risk Assessment* 7(5):1195-1209. Contribution No. AED-01-037.

Walker, H.A., B. Keim and M.B. Arndt. 2001. Natural and Anthropogenic Factors of Global and New England Climate Change. Chapter 3 In: Preparing for a Changing Climate - The Potential Consequences of Climate Variability and Change. A Report of the New England Regional Assessment Group for the US Global Change Program, December 2001. Durham, NH: University of New Hampshire Institute for the Study of Earth, Oceans, and Space. PP. 19-30. Contribution No. AED-00-016.

Walker, H.A., B. Keim and M.B. Arndt. 2001. Natural and Anthropogenic Factors Affecting Global and Regional Climate. Chapter 3 In: Preparing for a Changing Climate - The Potential Consequences of Climate Change and Variability: New England Regional Overview. A Report of the New England Regional Assessment Group for the US Global Change Program, August 2001. Durham, NH: University of New Hampshire Institute for the Study of Earth, Oceans, and Space. PP. 18-25. Contribution No. AED-01-090.

Wigand, C., M. Finn, S. Findlay and D. Fischer. 2001. Submersed Macrophyte Effects on Nutrient Exchanges in Riverine Sediments. *Estuaries* 24(3):398-406. Contribution No. AED-99-2126.

Wigand, C., R.L. Comeleo, R.A. McKinney, G.B. Thursby, M. Chintala and M.A. Charpentier. 2001. Outline of A New Approach to Evaluate Ecological Integrity of Salt Marshes. *Human and Ecological Risk Assessment* 7(5):1541-1554. Contribution No. AED-00-083.

Zarogian, G.E., G. Gardner, D.J. Borsay Horowitz, R.E. Gutjahr-Gobell, R.J. Haebler and L.J. Mills. 2001. Effect of 17beta-estradiol, o,p'-DDT, Octylphenol and p,p'-DDE on Gonadal Development and Liver and Kidney Pathology in Juvenile Male Summer Flounder (*Paralichthys dentatus*). *Aquatic Toxicology* 54(1-2):101-112. Contribution No. AED-99-2168.

2000

Abdelrhman, M.A., E. Davey, K. Rocha and G. Morrison. 2000. Hydrodynamic Data from the Slocums River Estuary, Massachusetts. Kenneth Perez, PhD, Principle Investigator Project 4.0 NHEERL-AED, Quantification of Anthropogenic Point Source Effects on Estuarine Soft Bottom Communities, Narragansett, RI. Contribution No. 2116.

Bergen, B.J., J.G. Quinn and P.R. Parrish. 2000. Quality Assurance Study of Marine Lipid Class Determination Using Chromarod/Iatroscan (Reg. Trademark) Thin-Layer Chromatography-Flame Ionization Detector. *Environmental Toxicology and Chemistry* 19(9): 2189-2197 Contribution No. 2105.

Bolton, D.W., T.H. Pfeiffer and J.W. Grace. 2000. Radium in Maryland Coastal Plain Ground Water: An Emerging Issue Resulting from a Multi-Agency Study of Carcinogens in Well Water. Proceedings of the National Water Quality Monitoring Council's National Monitoring Conference: Monitoring for the Millennium, Austin, TX, April 25-27, 2000, pp 495-508. Contribution No. AED-00-060.

Boward, D., P. Kazyak, S. Stranko, M. Hurd and A. Prochaska. 2000. From the Mountains to the Sea: The State of Maryland's Freshwater Streams. US EPA Region 3 Philadelphia, PA 903/R-99/023, Contribution No. 2075.

Bradley, M.P., B.S. Brown, S.S. Hale, F.W. Kutz, R.B. Landy, R. Shedlock, A. Morris, W.B. Galloway, J.S. Rosen, R. Pepino and B. Wiersma. 2000. Summary of the MAIA Working Conference. *Environmental Monitoring and Assessment* 63:15-29. Contribution No. 2151.

Bradley, M.P. and R.B. Landy. 2000. The Mid-Atlantic Integrated Assessment (MAIA). *Environmental Monitoring and Assessment* 63:1-13. Contribution No. 2152.

Burgess, R.M. 2000. Characterizing and Identifying Toxicants in Marine Waters: A Review of Marine Toxicity Identification Evaluations (TIEs). *International Journal of Environment and Pollution* 13(1-6):2-33. Contribution No. 1969.

Burgess, R.M., S.A. Ryba and M.G. Cantwell. 2000. Importance of Organic Carbon Quantity on the Variation of Koc in Marine Sediments. *Toxicological and Environmental Chemistry* 77:9-29. Contribution No. 2009.

Burgess, R.M., M.G. Cantwell, M.C. Pelletier, K.T. Ho, J.R. Serbst, G.S. Cook and A. Kuhn. 2000. Development of a Toxicity Identification Evaluation (TIE) Procedure for Characterizing Metal Toxicity in Marine Sediments. *Environmental Toxicology and Chemistry* 19(4):982-991. Contribution No. 2094.

Campbell, D.E. 2000. An Energy Systems Analysis of Constraints on Economic Development. In: 2nd International Workshop: Advances in Energy Studies, Exploring Supplies, Constraint, and Strategies, Porto Venere, Italy, May 23-27, 2000. S. Ulgiati, M.T. Brown, M. Giampietro, R.A. Herendeen, and K. Mayumi, eds. pp 175-187. Contribution No. AED-00-094.

Campbell, D.E. 2000. Using Energy Systems Theory to Define, Measure, and Interpret Ecological Integrity and Ecosystem Health. *Ecosystem Health* 6(3):181-204 Contribution No. AED-99-2161.

Campbell, D.E. 2000. A Revised Solar Transformity for Tidal Energy Received by the Earth and Dissipated Globally: Implications for Emergy Analysis. In: *Emergy Synthesis: Theory and Applications of Emergy Methodology*, Proceedings of the First Biennial Emergy Analysis Research Conference, September 1999, Gainville, FL. M.T. Brown, ed. Center for Environmental Policy, Department of Environmental Engineering Sciences, University of Florida, Gainesville, FL. pp 255-264. Contribution No. AED-99-2170.

Cicchetti, G. and R.J. Diaz. 2000. Types of Salt Marsh Edge and Export of Trophic Energy from Marshes to Deeper Habitats. In: *Concepts and Controversies in Tidal Marsh Ecology*. M.P. Weinstein and D. A. Kreeger, eds. Dordrecht, The Netherlands: Kluwer Academic Publications. pp 515-541. Contribution No. AED-99-2156.

Coiro, L., S.L. Poucher and D.C. Miller. 2000. Hypoxic Effects on Growth of *Palaemonetes vulgaris* Larvae and Other Species: Using Constant Exposure Data to Estimate Cyclic Exposure Response. *Journal of Experimental Marine Biology and Ecology* 247:243-255 Contribution No. 2066.

Galloway, W.B., G.G. Pesch, W.K. Smith, P.J. Morneau and W.W. Barchard. 2000. What's the C in CBEP. Proceedings of the 6th Annual National Watershed Coalition Conference "Getting the Job Done at the Ground Level (Supporting Local Decision Making)", Austin, TX, May 16-19, 1999, July 2000, pp 203-216. Contribution No. 2139.

Gleason, T.R., W.R. Munns Jr. and D.E. Nacci. 2000. Projecting Population-level Response of Purple Sea Urchins to Lead Contamination for an Estuarine Ecological Risk Assessment. *Journal of Aquatic Ecosystem Stress and Recovery* 7:177-185 Contribution No. 1985.

Hale, S.S. and H.W. Buffum. 2000. Designing Environmental Monitoring Databases for Statistical Analyses. *Environmental Monitoring and Assessment* 64(1):55-68. Contribution No. 2133.

Hale, S.S. 2000. How to Manage Data Badly (Part 2). *Bulletin of Ecological Society of America* 81(1):101-103 Contribution No. 1975b.

Hale, S.S., L.H. Bahner and J.F. Paul. 2000. Finding Common Ground in Managing Data Using Regional Environmental Assessments. *Environmental Monitoring and Assessment* 63:143-157. Contribution No. 2089.

Ho, K.T., A. Kuhn, M. Pelletier, F. McGee, R.M. Burgess and J. Serbst. 2000. Sediment Toxicity Assessment: Comparison of Standard and New Testing Designs. *Archives of Environmental Contamination and Toxicology* 39(4):462-468. Contribution No. AED-99-2166.

Keller, A.A. and G. Klein-MacPhee. 2000. Impact of Elevated Temperature on the Growth, Survival, and Trophic Dynamics of Winter Flounder Larvae: a Mesocosm Study. *Canadian Journal of Fisheries and Aquatic Sciences* 57:2382-2392 Contribution No. AED-00-030.

King, N.J., W.H. Howell, M. Huber and D.A. Bengtson. 2000. Effects of Larval Stocking Density on Laboratory-Scale and Commercial-Scale Production of Summer Flounder *Paralichthys dentatus*. *Journal of the World Aquaculture Society* 31(3):436-445. Contribution No. AED-00-069.

Kuhn, A., W.R. Munns Jr., S.L. Poucher, D. Champlin and S.M. Lussier. 2000. Prediction of Population-level Responses from Mysid Toxicity Test Data Using Population Model Techniques. *Environmental Toxicology and Chemistry* 19(9):2364-2371 Contribution No. 2037.

Kutz, F.W., P. Koenings and L. Adelhardt. 2000. Proceedings of the Delmarva Coastal Bays Conference III: Tri-state Approaches to Preserving Aquatic Resources, Ocean City MD, November 12-13 1999. US EPA Office of Research and Development, Washington, DC, 160pp. EPA/620/R-00/001, Contribution No. AED-00-005.

Kutz, F.W., J.F. Paul and T.B. DeMoss. 2000. Update on the Ecological Condition of the Delmarva Coastal Bays. In: *Proceeding of the Delmarva Coastal Bays Conference III: Tri-state Approaches to Preserving Aquatic Resources*, Ocean City MD, November 12-13, 1999, F.W. Kutz, P. Koenings, and L. Adelhardt, eds. US EPA Office of Research and Development, Washington, DC, EPA/620/R-00/001, pp 43-49. Contribution No. AED-00-067.

Lebo, J.A., J.N. Huckins, J.D. Petty, K.T. Ho and E.A. Stern. 2000. Selective Removal of Organic Contaminants from Sediments: A Methodology for Toxicity Identification Evaluations (TIEs). *Chemosphere* 40:811-819 Contribution No. AED-00-032.

Lussier, S.M., D. Champlin, J.A. Livolsi, S.L. Poucher and R.J. Pruell. 2000. Acute Toxicity of Para-Nonylphenol to Saltwater Animals. *Environmental Toxicology and Chemistry* 19(3):617-621 Contribution No. 1992.

Macted, J.R., M.T. Barbour, J. Gerritsen, V. Poretti, N. Primrose, A. Silvia, D. Penrose and R. Renfrow. 2000. Assessment Framework for Mid-Atlantic Coastal Plain Streams Using Benthic Macro Invertebrates. *Journal of North American Benthological Society* 19(1):128-144 Contribution No. X255.

Meng, L., C. Gray, B.K. Taplin and E. Kupcha. 2000. Using Winter Flounder Growth Rates to Assess Habitat Quality in Rhode Island's Coastal Lagoons. *Marine Ecology Progress Series* 201:287-299. Contribution No. AED-99-2067.

Nacci, D.E., J.R. Serbst, T.R. Gleason, S. Cayula, G.B. Thursby, W.R. Munns Jr. and R.K. Johnston. 2000. Biological Responses of the Sea Urchin, *Arbacia punctulata*, to Lead Contamination for an Estuarine Ecological Risk Assessment. *Journal of Aquatic Ecosystem Stress and Recovery* 7:187-199. Contribution No. 1964.

Najjar, R.G., P. Anderson, C.G. Knight, H.A. Walker, P. Megonigal, N.P. Psuty, V.S. Kennedy and B. Swanson. 2000. Coastal Zones. Chapter 7 In: *Preparing for a Changing Climate: The Potential Consequences of Climate Variability and Change*, Mid-Atlantic Foundation Report, A Report of the Mid-Atlantic Regional Assessment Team for the Global Change Research Program, Pennsylvania State U., University Park, PA. pp. 178-213. Contribution No. AED-00-057.

Najjar, R.G., H.A. Walker, P.J. Anderson, E.J. Barron, R.J. Bord, J.R. Gibson, V.S. Kennedy, C.G. Knight, J.P. Megonigal, R.E. O'Connor, C.D. Polsky, N.P. Psuty, B.A. Richards, L.G. Sorenson and E.M. Steele. 2000. The Potential Impacts of Climate Change on the Mid-Atlantic Coastal Region. *Climate Research* 14:219-233 Contribution No. 2125.

Najjar, R.G., P.J. Anderson, C.G. Knight, H.A. Walker, P. Megonigal, N.P. Psuty, V.S. Kennedy, R.S. Swanson, J.R. Gibson and E. Steele. 2000. Coastal Zones. Chapter 7 In: *Preparing for a Changing Climate: The Potential Consequences of Climate Variability and Change-Mid-Atlantic Overview*, A Report of the Mid-Atlantic Regional Assessment Team for the U.S. Global Change Program, March 2000, Pennsylvania State University, University Park, PA. Contribution No. AED-00-033.

Neff, R., H. Chang, C.G. Knight, R.G. Najjar, B. Yarnal and H.A. Walker. 2000. Impact of Climate Variation and Change in Mid-Atlantic Region Hydrology and Water Resources. *Climate Research* 14:207-218 Contribution No. 2130.

O'Conner, T.P. and J.F. Paul. 2000. Misfit Between Sediment Toxicity and Chemistry. *Marine Pollution Bulletin* 40(1):59-64. Contribution No. AED-00-019.

Paul, J.F., J.A. Kiddon, C.J. Strobel, B.D. Melzian, J.S. Latimer, D.J. Cobb, D.E. Campbell and B.S. Brown. 2000. Condition of the Mid-Atlantic Estuaries: Production of a State of the Environment Report. *Environmental Monitoring and Assessment* 63:115-129. Contribution No. 2082.

Pelletier, M.C., R.M. Burgess, M.G. Cantwell, J.R. Serbst, K.T. Ho and S.A. Ryba. 2000. Importance of Maternal Transfer of the Photoreactive Polycyclic Aromatic Hydrocarbon Fluoranthene from Benthic Adult Bivalves to their Pelagic Larvae. *Environmental Toxicology and Chemistry* 19(11):2691-2698 Contribution No. AED-99-2081.

Pruell, R.J., B.K. Taplin, D.G. McGovern, R.A. McKinney and S.B. Norton. 2000. Organic Contaminant Distributions in Sediments, Polychaetes (*Nereis virens*) and American Lobster (*Homarus americanus*) from a Laboratory Food Chain Experiment. *Marine Environmental Research* 49:19-36. Contribution No. 1948.

Reddy, C.M., L.J. Heraty, B.D. Holt, N.C. Sturchio, T.I. Eglinton, N.J. Drenzek, L. Xu, J.L. Lake and K.A. Maruya. 2000. Stable Chlorine Isotope Compositions of Aroclors and Aroclor-contaminated Sediment. *Environmental Science and Technology* 34(13):2866-2870 Contribution No. AED-00-061.

Sarakinos, H.C., N. Birmingham, P.A. White and J.B. Rasmussen. 2000. Correspondence Between Whole Effluent Toxicity and the Presence of Priority Substances in Complex Industrial Effluents. *Environmental Toxicology and Chemistry* 19(1):63-71 Contribution No. 2189.

Stahl, R.G., J. Orme-Zavelata, K. Austin, W.J. Berry, J.R. Clark, S. Cormier, W. Fisher, J.H. Garber, R. Hoke, L.E. Jackson, G.L. Kreamer, C. Muska and M.E. Sierszen. 2000. Ecological Indicators in Risk Assessment: Workshop Summary. *Human and Ecological Risk Assessment* 6(4):671-677. Contribution No. AED-00-123.

Strobel, C.J. and J. Heltshe. 2000. Application of the Indicator Evaluation Guidelines to Dissolved Oxygen Concentration as an Indicator of Spatial Extent of Hypoxia in Estuarine Waters. *Evaluation Guidelines for Ecological Indicators, Environmental Monitoring and Assessment Program (EMAP), US EPA Office of Research and Development, Washington, DC, May 2000, EPA/620/R-99/005 pp 2-1 to 2-17. Contribution No. AED-98-2068.*

Strobel, C.J., J.F. Paul, M.M. Hughes, H.W. Buffum, B.S. Brown and J.K. Summers. 2000. Using Information on Spatial Variability of Small Estuaries in Designing Large Scale Estuarine Monitoring Programs. *Environmental Monitoring and Assessment* 63:223-236. Contribution No. 2092.

Thursby, G.B., E.A. Stern, K.J. Scott and J.F. Heltshe. 2000. Survey of Toxicity in Ambient Waters of the Hudson/Raritan Estuary, USA: Importance of Small Scale Variations. *Environmental Toxicology and Chemistry* 19(11):2678-2682 Contribution No. 1713.

VanBeneden, R.J., L.D. Rhodes and G.R. Gardner. 2000. Potential Alterations in Gene Expression Associated with Carcinogen Exposure in *Mya arenaria*. *Biomarkers* 4(6):485-491. Contribution No. 2045.

Voyer, R.A., C.E. Pesch, J.H. Garber, J.L. Copeland and R. Comeleo. 2000. New Bedford Harbor, Massachusetts: A Story of Urbanization and Ecological Connections. *Environmental History* 5(3):354-377. Contribution No. AED-97-1923.

Walker, H.A., J.S. Latimer and E.H. Dettmann. 2000. Assessing the Effects of Natural and Anthropogenic Stressors in the Potomac Estuary: Implications for Long-Term Monitoring. *Environmental Monitoring and Assessment* 63:237-251 Contribution No. 2083.

Wigand, C., J. Wehr, K. Limburg, B. Gorham, S. Logergan and S. Findlay. 2000. Effect of *Vallisneria americana* (L.) on Community Structure and Ecosystem Function in Lake Mesocosms. *Hydrobiologia* 418:137-146 Contribution No. 1972.

Yan, Q., D. Ma, H. Guo, D.J. Hansen and W.J. Berry. 2000. Testing Acute Toxicity of Contaminated Sediment in Jinzhou Bay with Marine Amphipods. *Oceanologia et Limnologia Sinica* 30(6):629-633. Contribution No. AED-00-087.

Zarogian, G.E. and E. Jackim. 2000. In Vivo Metallothionein and Glutathione Status in an Acute Response to Cadmium in *Mercenaria mercenaria* Brown Cells. *Comparative Biochemistry and Physiology Part C* 127:251-261 Contribution No. AED-97-1947.

1999

Bengtson, D.A., T.R. Gleason and M.A. Hossain. 1999. Consumption Rates of Summer Flounder Larvae on Rotifer and Brine Shrimp Prey During Larval Rearing. *North American Journal of Aquaculture* 61:243-245 Contribution No. 2190.

Berry, W.J., M.G. Cantwell, P.A. Edwards, J.R. Serbst and D.J. Hansen. 1999. Predicting Toxicity of Sediments Spiked With Silver. *Environmental Toxicology and Chemistry* 18 (1):40-48. 600/J-99/171, Contribution No. 1988.

Berry, W.J. 1999. Report on Predicting Metal Toxicity in Sediments-APM 152. Jennifer Orme-Zavaleta, Assistant Laboratory Director for Water, National Health and Environmental Effects Research Laboratory, Research Triangle Park, NC, Contribution No. 2173.

Burgess, R.M. and R.A. McKinney. 1999. Importance of Interstitial, Overlying Water and Whole Sediment Exposures To Bioaccumulation By Marine Bivalves. *Environmental Pollution* 104:373-382. 600/J-99/169, Contribution No. 1917.

Fairbrother, A., J.H. Gentile, C. Menzie and W.R. Munns Jr. 1999. Report on the Shrimp Virus Peer Review and Risk Assessment Workshop: Developing a Qualitative Ecological Risk Assessment. US EPA-ORD National Center for Environmental Assessment, Washington, DC. 20460. 600/R-99/027, Contribution No. 2172.

Gleason, T.R., W.R. Munns Jr. and D.E. Nacci. 1999. Influence of Model Time Step On the Relative Sensitivity of Population Growth Rate To Survival, Growth and Reproduction. In: *Challenges in Applied Population Biology*, July 8-9, 1999 Royal Holloway, University of London, produced by the Association of Applied Biologists, M.B. Thomas and T. Kedwards, eds. *Aspects in Applied Biology* 53, pp. 253-260. 600/A-99/058, Contribution No. 2141.

Gutjahr-Gobell, R.E., D.E. Black, L.J. Mills, R.J. Pruell, B.K. Taplin and S. Jayaraman. 1999. Feeding the Mummichog (*Fundulus heteroclitus*) a Diet Spiked With Non-Ortho- and Mono-Ortho-Substituted Polychlorinated Biphenyls: Accumulation and Effects. *Environmental Toxicology and Chemistry* 18(4):699-707. 600/J-99/163, Contribution No. 1862.

Hale, S.S., J.S. Rosen, D. Scott, J.F. Paul and M.M. Hughes. 1999. EMAP Information Management Plan: 1998 - 2001 Appendices. US EPA Office of Research and Development, National Health and Environmental Effects Research Laboratory, April, 1999, 184p. 620/R-99/001b, Contribution No. 2018.

Hale, S.S., J.S. Rosen, D. Scott, J.F. Paul and M.M. Hughes. 1999. EMAP Information Management Plan: 1998 - 2001. US EPA Office of Research and Development, National Health and Environmental Effects Research Laboratory, April, 1999, 184p. 620/R-99/001a, Contribution No. 2018.

Hale, S.S. 1999. How to Manage Data Badly (Part 1). *Bulletin of the Ecological Society of America* 80(4):265-268. Contribution No. 1975a.

Ho, K.T., A. Kuhn, M.C. Pelletier, T.L. Hendricks and A. Helmstetter. 1999. pH Dependent Toxicity of Five Metals To Three Marine Organisms. *Environmental Toxicology* 14:235-240. 600/J-99/167, Contribution No. 1867.

Ho, K.T., A. Kuhn, M.C. Pelletier, R.M. Burgess and A. Helmstetter. 1999. Use of *Ulva lactuca* To Distinguish pH-Dependent Toxicants In Marine Waters and Sediments. *Environmental Toxicology and Chemistry* 18(2): 207-212. 600/J-99/172, Contribution No. 1817.

Ho, K.T., L.E. Patton, J.S. Latimer, R.J. Pruell, M.C. Pelletier, R.A. McKinney and S. Jayaraman. 1999. Chemistry and Toxicity of Sediment Affected By Oil From the North Cape Spilled Into Rhode Island Sound. *Marine Pollution Bulletin* 38(4):314-323. 600/J-99/213, Contribution No. 2006.

Huber, M. and D.A. Bengtson. 1999. Effects of photoperiod and temperature on the regulation of the onset of maturation in the estuarine fish *Menidia beryllina* (Cope) (Atherinidae). *Journal of Experimental Marine Biology and Ecology* 240(1999):285-302. Contribution No. X254.

Huber, M. and D.A. Bengtson. 1999. Interspecific differences in growth of somatic and reproductive tissues during the breeding season in *Menidia menidia* and *M. beryllina*. *Journal of Fish Biology* 55:274-287. Contribution No. X249.

Keith, D.J., D. Colton, J. Lindsay, H. Louft and L. Stewart. 1999. New Technology For Conducting Radiation Hazard Assessments: the Application of the Underwater Radiation Spectral Identification System (URSIS) At the Massachusetts Bay Industrial Waste (U.S.A.). *Environmental Monitoring and Assessment* 54:259-282. 600/J-99/162, Contribution No. 1750.

Keller, A.A., C.A. Oviatt, H.A. Walker and J.D. Hawk. 1999. Predicted Impacts of Elevated Temperature On the Magnitude of the Winter-Spring Phytoplankton Bloom In Temperate Coastal Waters: a Mesocosm Study. *Limnology and Oceanography* 44(2):344-356. 600/J-99/212, Contribution No. 1968.

Klamer, H., C.A. Schipper, R.M. Burgess, J.H. de Vries and J. Stronkhorst. 1999. Standard Operating Procedure Specie-04 Mutatox (TM) Genotoxicity Sediment Extract Toxicity Test. Ministry of Transport, Public Works and Water Management, Directorate General for Public Works and Water Management, National Institute for Coastal and Marine Management/RIKZ. Project: SPECIE*BIO RIKZ/AB-99.117x, June 1999, Version 1.1. Contribution No. AED-99-2193.

Latimer, J.S., W.R. Davis and D.J. Keith. 1999. Mobilization of PAHs and PCBs from In-Place Contaminated Marine Sediments During Simulated Resuspension Events. *Estuarine, Coastal and Shelf Science* 49(4):577-595. Contribution No. 1922.

Lussier, S.M., W.S. Boothman, S.L. Poucher, D. Champlin and A. Helmstetter. 1999. Comparison of Dissolved and Total Metals Concentrations From Acute Tests With Saltwater Organisms. *Environmental Toxicology and Chemistry* 18(5):889-898. 600/J-99/165, Contribution No. 1949.

Lussier, S.M., A. Kuhn and R.L. Comeleo. 1999. An Evaluation of the Seven-Day Toxicity Test with *Americamysis bahia* (formerly *Mysidopsis bahia*). *Environmental Toxicology and Chemistry* 18(12):2888-2893 Contribution No. 2044.

McKinney, R.A., R.J. Pruell and R.M. Burgess. 1999. Ratio of the Concentration of Anthraquinone To Anthracene In Coastal Marine Sediments. *Chemosphere* 38(10):2415-2430. 600/J-99/166, Contribution No. 1925.

McKinney, R.A., J.L. Lake, M. Allen and S.A. Ryba. 1999. Spatial Variability in Mussels Used to Assess Base Level Nitrogen Isotope Ratio in Freshwater Ecosystems. *Hydrobiologia* 412:17-24. Contribution No. 1994.

Meng, L. and J.C. Powell. 1999. Linking Juvenile Fish and Their Habitats: An Example From Narragansett Bay, Rhode Island. *Estuaries* 22(4):905-916 Contribution No. AED-97-1952.

Nacci, D.E., L. Coiro, D. Champlin, S. Jayaraman, R.A. McKinney, T.R. Gleason, W.R. Munns Jr., J.L. Specker and K.R. Cooper. 1999. Adaptions of wild populations of the estuarine fish *Fundulus heteroclitus* to persistent environmental contaminants. *Marine Biology* 134:9-17. Contribution No. 1965.

Nielsen, S.L., I. Thingstrup and C. Wigand. 1999. Apparent Lack of Vesicular-Arbuscular Mycorrhiza (VAM) In the Seagrasses *Zostera Marina* L. and *Thalassia Testudinum* Banks Ex Konig. *Aquatic Botany* 63:261-266. 600/J-99/173, Contribution No. 2027.

Norwood, C.B. 1999. Purification and Recovery of Bulky Hydrophobic DNA Adducts. *Analytical Biochemistry* 272, 100-106. Contribution No. 2055.

Paul, J.F., B.D. Melzian, B.S. Brown, C.J. Strobel, J.A. Kiddon, J.S. Latimer, D.E. Campbell and D.J. Cobb. 1999. MAIA Project Summary: Condition of the Mid-Atlantic Estuaries. US EPA Office of Research and Development, Washington, DC, December 1999, 6pp. 600/SR-98/147, Contribution No. 2150.

Paul, J.F., J.H. Gentile, K.J. Scott, S.C. Schimmel, D.E. Campbell and R.W. Latimer. 1999. EMAP-Virginian Province Four Year Assessment (1990-1993). US EPA Office of Research and Development, Washington, DC, EMAP-Environmental Monitoring and Assessment Program EPA/620/R-99/004, October 1999, 134pp Contribution No. 1837.

Perez, K.T., E.W. Davey, R.H. Moore, P.R. Burn, M.S. Rosol, J.A. Cardin, R.L. Johnson and D.N. Kopans. 1999. Application of Computer-aided Tomography (CT) to the Study of Estuarine Benthic Communities. *Ecological Applications* 9(3):1050-1058. Contribution No. 1954.

Schimmel, S.C., S.J. Benyi and C.J. Strobel. 1999. Assessment of the Ecological Condition of Long Island Sound, 1990-1993. *Environmental Monitoring and Assessment* 56:27-49. 600/J-99/206, Contribution No. 1821.

Schipper, C.A., R.M. Burgess, M.E. Schot, B.J. Kater and J. Stronkhorst. 1999. Standard Operating Procedures: Marine Urchin *Echinocardium cordatum* Mortality and Behavior Sediment Toxicity Test. Ministry of Transport, Public Works and Water Management, Directorate General for Public Works and Water Management National Institute for Coastal and Marine Management/RIKZ. Project: SPECIE*BIO RIKZ/AB-99.107x, June 1999, Version 1.1 Contribution No. AED-99-2177.

Schipper, C.A., R.M. Burgess, M.E. Schot, B.J. Kater and J. Stronkhorst. 1999. Standard Operating Procedures: Marine Microtox Solid Phase (*Vibrio fisheri*) Sediment Toxicity Test. Ministry of Transport, Public Works and Water Management, Directorate-General for Public Works and Water Management, National Institute for Coastal and Marine Management/RIKZ. Project SPECIE8BIO, RIKZ/AB-99.107x, June 1999, Version 1.1 Contribution No. AED-99-2176.

Schipper, C.A., R.M. Burgess, B. van den Dikkenberg, B.J. Kater and J. Stronkhorst. 1999. Standard Operating Procedures: Marine Amphipod *Corophium volutator* Mortality Sediment Toxicity Test. Ministry of Transport, Public Works and Water Management, Directorate-General For Public Works and Water Management, National Institute for Coastal and Marine Management/RIKZ. Project: SPECIE*BIO, June 1999, Version 1.1 Contribution No. AED-99-2175.

Schipper, C.A., R.M. Burgess, L.C. van den Dikkenberg, B.J. Kater and J. Stronkhorst. 1999. Standard Operating Procedure Specie-05 Marine Oyster *Crassostrea gigas* Embryo-Larvae Mortality and Development Sediment Toxicity Test. Ministry of Transport, Public Works and Water Management, Directorate General for Public Works and Water Management, National Institute for Coastal and Marine Management/RIKZ. Project: SPECIE*BIO RIKZ/AB-99.118x, June 1999, Version 1.1. Contribution No. AED-99-2194.

Schipper, C.A., R.M. Burgess, L.C. van den Dikkenberg, B.J. Kater and J. Stronkhorst. 1999. Standard Operating Procedure Specie-06 *Brachionus plicatilis* Sediment Pore Water Toxicity Test. Ministry of Transport, Public Works and Water Management, Directorate General for Public Works and Water Management, National Institute for Coastal and Marine Management/RIKZ. Project: SPECIE*BIO RIKZ/AB-99.119x, June 1999, Version 1.1. Contribution No. AED-99-2195.

Spehar, R.L., S.L. Poucher, L.T. Brooke, D.J. Hansen, D. Champlin and D.A. Cox. 1999. Comparative Toxicity of Fluoranthene to Freshwater and Saltwater Species Under Fluorescent and Ultraviolet Light. *Archives of Environmental Contamination and Toxicology* 37:496-502 Contribution No. AED-98-2022.

Strobel, C.J., H.W. Buffum, S.J. Benyi and J.F. Paul. 1999. Environmental Monitoring and Assessment Program: Current Status of Virginia Province (U.S.) Estuaries. *Environmental Monitoring and Assessment* 56: 1-25. 600/J-99/207, Contribution No. 1794.

Suter, G., B.L. Antcliffe, W.R. Davis, S. Dyer, J. Gerritsen, G. Linder, K. Munkittrick and E. Rankin. 1999. Conceptual Approaches To Identify and Assess Multiple Stressors. In: *Multiple Stressors In Ecological Risk and Impact Assessment*, Proceedings from the Pellston Workshop on Strssors in Ecological Risk and Impact Assessment, September 13-18, 1997, SETAC Press, Pensicola, FL, J.A. Foran and S. A Ferenc, eds., pp.1-88. 600/A-99/057, Contribution No. 2159.

White, P.A., S. Robitaille and J.B. Rasmussen. 1999. Heritable Reproductive Effects of Benzo[a]Pyrene on the Fathead Minnow (*Pimephales promelas*). *Environmental Toxicology and Chemistry* 18(8):1843-1847. Contribution No. 2171.

1998

Abdelrhman, M.A., B.J. Bergen and W.G. Nelson. 1998. Modeling of PCB Concentrations In Water and Biota (*Mytilus edulis*) In New Bedford Harbor, Massachusetts. *Estuaries* 21(3):435-448. 600/J-98/398, Contribution No. 1797.

Bergen, B.J., K.A. Rahn and W.G. Nelson. 1998. Remediation At a Marine Superfund Site: Surficial Sediment PCB Congener Concentration, Composition, and Redistribution. *Environmental Science and Technology* 32(22):3496-3501. 600/J-98/402, Contribution No. 1953.

Berry, W.J. 1998. Research Implementation Plan For Bioavailability of Contaminants In Sediments-EqP-Based Bioavailability, Project: Bioavailability 1.0. 600/X-98/015, Contribution No. 1926.

Black, D.E., R.E. Gutjahr-Gobell, R.J. Pruell, B.J. Bergen, L.J. Mills and A.E. McElroy. 1998. Reproduction and Polychlorinated Biphenyls In *Fundulus heteroclitus* (Linnaeus) From New Bedford Harbor, Massachusetts, USA. *Environmental Toxicology and Chemistry* 17(7):1405-1444. 600/J-98/385, Contribution No. 1754.

- Black, D.E., R.E. Gutjahr-Gobell, R.J. Pruell, B.J. Bergen and A.E. McElroy. 1998. Effects of a Mixture of Non-Ortho- and Mono-Ortho-Polychlorinated Biphenyls On Reproduction In *Fundulus heteroclitus* (Linnaeus). *Environmental Toxicology and Chemistry* 17(7):1396-1404. 600/J-98/400, Contribution No. 1753.
- Burgess, R.M. 1998. Research Implementation Plan: Role of Organic Carbon In Bioavailability, Project: Bioavailability 1.2. 600/X-98/023, Contribution No. 1927.
- Burgess, R.M. and S.A. Ryba. 1998. Comparison of Colloid-Contaminant C18-Based Isolation Techniques Using PCB Contaminated Humic Substances and Interstitial Water. *Chemosphere* 36 (11):2549-2568. 600/J-98/182, Contribution No. 1914.
- Campbell, D.E. 1998. Emergency Analysis of Human Carrying Capacity and Regional Sustainability: An Example Using the State of Maine. *Environmental Monitoring and Assessment* 51:531-569. 600/J-98/185, Contribution No. 1915.
- Campbell, D.E., W.B. Galloway and G.G. Pesch. 1998. Appreciative Inquiry: a Mechanism For Maximizing Empower In Social Systems. Proceedings of the 42nd Annual Meeting of the International Society For Systems Sciences, Atlanta, GA, July 19-23 1988. J.K. Allen and J. Wilby, eds. Paper 3107. 600/A-98/084, Contribution No. 2011.
- Campbell, D.E. and C.R. Newell. 1998. MUSMOD, a Production Model For Bottom Culture of the Blue Mussel, *Mytilus edulis* L. *Journal of Experimental Marine Biology and Ecology* 219:171-203. 600/J-98/180, Contribution No. 1854.
- Campbell, D.E. 1998. Research Implementation Plan For Ecological Modeling and Simulation Project: Ecological Integrity 1.0. 600/X-98/010, Contribution No. 1931.
- Christensen, K.K. and C. Wigand. 1998. Formation of Root Plaques and Their Influence On Tissue Phosphorus Content In *Lobelia dortmanna*. *Aquatic Botany* 61:111-122. 600/J-98/399, Contribution No. 2026.
- Davis, W.R., J.A.F. Draxler, J.F. Paul and J.J. Vitaliano. 1998. Benthic Biological Processes and Eh As a Basis For a Benthic Index. *Environmental Monitoring and Assessment* 51:259-268. 600/J-98/186, Contribution No. 1916.
- Finlayson, B. and S.M. Lussier. 1998. Mysids. In: Standard Methods for the Evaluation of Water and Wastewater, 20th Edition, M.H. Franson ed. American Public Health Association, Washington D.C. 20005-2605, 1998, pp 8-91 to 8-100. Contribution No. AED-97-1849.
- Gleason, T.R. 1998. Research Implementation Plan For Extrapolation of Laboratory Endpoints To Field Population Response: Mummichog Population Response Along a PCB Gradient, Project: Ecological Significance 3.1. 600/X-98/018, Contribution No. 1939.
- Gutjahr-Gobell, R.E. 1998. Growth of Juveniles and Egg Production of Mummichogs Fed Different Diets In the Laboratory. *The Progressive Fish Culturist* 60:276-283. 600/J-99/168, Contribution No. 1839.
- Hale, S.S., M.M. Hughes, J.F. Paul, R.S. McAskill, S.A. Rego, D.R. Bender, N.J. Dodge, T.L. Richter and J.L. Copeland. 1998. Managing Scientific Data: the EMAP Approach. *Environmental Monitoring and Assessment* 51:429-440. 600/J-98/183, Contribution No. 1906.
- Ho, K.T. 1998. Research Implementation Plan-Indicator Development For Cause and Effect Relationships, Project: Bioavailability 1.4. 600/X-98/008, Contribution No. 1928.
- Holmer, M., H.S. Jensen, K.K. Christensen, C. Wigand and F.O. Andersen. 1998. Sulfate Reduction in Lake Sediments Inhabited By the Isoetid Macrophytes *Littorella uniflora* and *Isoetes lacustris*. *Aquatic Botany* 60:307-324. 600/J-98/384, Contribution No. 2038.
- Jackson, L.E. and M.P. Gant. 1998. Interactive, Spatial Inventory of Environmental Data in the Mid-Atlantic Region. *Environmental Monitoring and Assessment* 51:325-329. 600/J-98/218, Contribution No. 1913.
- Keeling, R.F., A.C. Manning, E.M. McEvoy and S.R. Shertz. 1998. Methods for Measuring Changes in Atmospheric O₂ Concentration and Their Application in Southern Hemisphere Air. *Journal of Geophysical Research* 103(D3):3381-3357. Contribution No. AED-95-X237.
- Kuhn, A. 1998. Research Implementation Plan For Extrapolation of Laboratory Endpoints To Field Population Responses: Field Verification of Population Responses For *Ampelisca*, Project: Ecological Significance 3.2. 600/X-98/019, Contribution No. 1940.
- Lake, J.L. 1998. Research Implementation Plan-Predicting Bioaccumulation From Sediments Project: Bioavailability 3.0. 600/X-98/009, Contribution No. 1929.
- Latimer, J.S. and J.G. Quinn. 1998. Aliphatic Petroleum and Biogenic Hydrocarbons Entering Narragansett Bay From Tributaries Under Dry Weather Conditions. *Estuaries* 21(1):91-107. 600/J-98/169, Contribution No. X250.
- Latimer, J.S. 1998. Research Implementation Plan For Ecological Indicators of Estuarine Health and Integrity - Historical Reconstruction: Sediment Core and Written Anecdotal Date, Project: Ecological Integrity 6.0. 600/X-98/013, Contribution No. 1935.
- Meng, L. 1998. Research Implementation Plan For Characterization and Categorization of Juvenile Fish Rearing Habitats Project: Ecological Integrity 3a. 600/X-98/011, Contribution No. 1932.
- Miller, D.C., M. Marcy, W.J. Berry, C.F. Deacutis, S.M. Lussier, A. Kuhn, M.A. Heber, S.C. Schimmel and E. Jackim. 1998. The Acute Toxicity of Sewage Sludge to Marine Fish, Mysids, and Copepods. Chapter 10 In: *Oceanic Processes in Marine Pollution*, vol. 5, pp. 103-113 Contribution No. 675.
- Mills, L.J. and D.E. Nacci. 1998. Research Implement. Plan: Extrapol. of Cellular/Subcellular Endpoints To Indicators of Organismal and Population Response - Activity: Assess. of the Effects of Endocrine Disrupting Chemicals On Embryo-Larval Success of Oviparous Fish, Project: Es 2.2. 600/X-98/017, Contribution No. 1938.

- Mills, L.J. 1998. Research Implementation Plan For Assessment of the Effects of Endocrine Disrupting Chemicals On Reproduction In Oviparous Vertebrates, Project: Es 2.1. 600/X-98/016, Contribution No. 1937.
- Munns, W.R., Jr., B. Brown, S.C. Schimmel, H.A. Walker and J.A. Livolsi. 1998. Strategic Plan For the NHEERL Atlantic Ecology Division. 600/X-98/030, Contribution No. 1924.
- Munns, W.R., Jr. 1998. Research Implementation Plan For Extrapolation of Short-Term Bioassay Endpoints To Indicators of Population Response, Project: Ecological Significance 1.0. 600/X-98/024, Contribution No. 1936.
- Munns, W.R., Jr., T.R. Gleason, D.E. Nacci, L.J. Mills, A. Kuhn and G.B. Thursby. 1998. Research Theme Plan: Research Methods For Evaluating the Ecological Significance of Biological Response To Anthropogenic Stress In Coastal Systems. 600/X-98/026, Contribution No. 2034.
- Nacci, D.E., L. Coiro, A. Kuhn, D. Champlin, W.R. Munns Jr., J.L. Specker and K.R. Cooper. 1998. Nondestructive Indicator of Ethoxyresorufin-O-Deethylase Activity In Embryonic Fish. *Environmental Toxicology and Chemistry* 17(12):2481-2486. 600/J-99/170, Contribution No. 1921.
- Nacci, D.E. 1998. Research Implementation Plan: Compensatory Responses of Estuarine Fish To Chemical Stress, Project: Ecological Significance 4.1. 600/X-98/020, Contribution No. 1941.
- Nelson, W.G., D.E. Campbell, B.J. Bergen and B.S. Brown. 1998. Research Theme Plan: Development of Indicators To Assess the Ecological Integrity of Estuarine Systems. 600/X-98/027, Contribution No. 2028.
- Newell, C.R., D.E. Campbell and S.M. Gallagher. 1998. Development of the Mussel Aquaculture Lease Site Model MUSMOD: a Field Program To Calibrate Model Formulations. *Journal of Experimental Marine Biology and Ecology* 219:143-169. 600/J-98/179, Contribution No. 1855.
- O'Conner, T.P., K.D. Daskalakis, J.L. Hyland, J.F. Paul and J.K. Summers. 1998. Comparisons of Sediment Toxicity with Predictions Based on Chemical Guidelines. *Environmental Toxicology and Chemistry* 17(3):468-471. 600/J-98/187, Contribution No. 1946.
- Paul, J.F. and B.S. Brown. 1998. Research Theme Plan: Development and Application of Methods To Conduct Integrated Ecological Resource Assessments On Regional and Spatial Scales. 600/X-98/028, Contribution No. 2020.
- Paul, J.F., B.D. Melzian, B.S. Brown, C.J. Strobel, J.A. Kiddon, J.S. Latimer and D.E. Campbell. 1998. Condition of the Mid-Atlantic Estuaries. 600/X-98/029, Contribution No. 1822.
- Paul, J.F., C.J. Strobel, B.D. Melzian, J.A. Kiddon, J.S. Latimer, D.E. Campbell and D.J. Cobb. 1998. State of the Estuaries In the Mid-Atlantic Region of the United States. *Environmental Monitoring and Assessment* 51:269-284. 600/J-98/184, Contribution No. 1911.
- Perez, K.T. 1998. Research Implementation Plan For Quantification of Anthropogenic Point Source Effects On Estuarine Soft Bottom Communities Project: Ecological Integrity 4.0. 600/X-98/012, Contribution No. 1933.
- Pruell, R.J. 1998. Research Implementation Plan For Nitrogen Isotope Ratios As Indicators of the Health and Integrity of Estuarine Food Webs, Project: Ecological Integrity 5.0. 600/X-98/014, Contribution No. 1934.
- Rubinstein, N.I. 1998. Reference Sediment Approach For Determining Sediment Contamination. Proceedings of the National Sediment Bioaccumulation Conference, Bethesda, MD, September 11-13, 1996, EPA 823-R-98-002, February 1998. 600/A-98/136, Contribution No. 1886.
- Thursby, G.B. 1998. Research Implementation Plan For Evaluation of Temporal and Spatial Mosaics of *Champia parvula* Population Resistance To Environmental Stressors, Project: Ecological Significance 4.2. 600/X-98/021, Contribution No. 1942.
- Thursby, G.B. 1998. Research Implementation Plan For Ecological Integrity of Estuarine Systems, Project: Ecological Integrity 5.0. 600/X-98/022, Contribution No. 2015.
- Thursby, G.B., D.C. Miller, S.L. Poucher, L. Coiro, W.R. Munns Jr. and T.R. Gleason. 1998. Protection of Saltwater Animals From Low Dissolved Oxygen: Cape Cod To Cape Hatteras. 600/X-98/041, Contribution No. 1920.
- VanBeneden, R.J., L.D. Rhodes and G.R. Gardner. 1998. Studies of the Molecular Basis of Gonadal Tumors In the Marine Bivalve, *Mya arenaria*. *Marine Environmental Research* 46(1-5):209-213. 600/J-98/396, Contribution No. 1957.
- Wigand, C., F.O. Andersen, K.K. Christensen, M. Holmer and H.S. Jensen. 1998. Endomycorrhizae of Isoetids Along a Biogeochemical Gradient. *Limnology and Oceanography* 43(3):508-515. 600/J-98/401, Contribution No. 2023.
- 1997
- Abdelrhman, M.A. and E.H. Dettmann. 1997. Two-Dimensional Modeling of Current Circulation and Contaminant Transport in Surface Waters. Chapter 12 In: Next Generation Environmental Models and Computation Methods, G. Delic and M. Wheeler, eds., SIAM, Philadelphia, PA; Bay City, MI Conference 8/7-9/95 Contribution No. 1720.
- Buffum, H.W. and S.S. Hale. 1997. *Maia*-Estuaries 1997 Data Format and Transfer Manual. 620/R-97/003, Contribution No. 1943.

- Buffum, H.W. and S.S. Hale. 1997. Maia-Estuarines 1997 Laboratory Data Format and Transmittal Guidance Document. 620/R-97/004, Contribution No. 1955.
- Burgess, R.M. and R.A. McKinney. 1997. Effects of Sediment Homogenization On Interstitial Water PCB Geochemistry. Archives of Environmental Contamination and Toxicology 33: 125-129. 600/J-98/074, Contribution No. 1735.
- Burgess, R.M., J.B. Charles, A. Kuhn, K.T. Ho, L.E. Patton and D.G. McGovern. 1997. Development of a Cation-Exchange Methodology For Marine Toxicity Identification Evaluation Applications. Environmental Toxicology and Chemistry 16(6):1203-1211. 600/J-97/322, Contribution No. 1768.
- Dettmann, E.H. and M.A. Abdelrhman. 1997. Modeling Short-Term Behavior of Dredged Material Disposed In Very Shallow and Very Deep Coastal Waters. In: Delic, G. and M.F. Wheeler, eds. Next Generation Environmental Models and Computational Methods, Proceedings, Bay City, Mi, August 7-9, 1995. Philadelphia: Society for Industrial and Applied Mathematics. pp. 109-115. 600/A-96/001, Contribution No. 1723.
- Frick, W.E., C.A. Sproul and D. Stuart. 1997. Bacterial Impacts of Ocean Outfalls: Legal Challenges. Journal of Environmental Engineering 123(2):191-196. 600/J-97/245, Contribution No. N275.
- Gundersen, J.L., W.G. Macintyre and R.C. Hale. 1997. pH-Dependent Sorption of Chlorinated Guaiacols On Estuarine Sediments: the Effects of Humic Acids and TOC. Environmental Science and Technology 31(1):188-193. 600/J-98/181, Contribution No. 1810.
- Ho, K.T., R.A. McKinney, A. Kuhn, M.C. Pelletier and R.M. Burgess. 1997. Identification of Acute Toxicants In New Bedford Harbor Sediments. Environmental Toxicology and Chemistry 16(3):551-558. 600/J-97/240, Contribution No. 1718.
- Ho, K.T. and D. Caudle. 1997. Ion Toxicity and Produced Water. Environmental Toxicology and Chemistry 16(10):1993-1995 Contribution No. AED-97-1918.
- Huber, M., M.C. Pelletier, J.B. Charles and R.M. Burgess. 1997. Ammonia Tolerance of the Bivalve *Mulinia lateralis* Sublethal Sediment Toxicity Test. Environmental Contamination and Toxicology 59:292-297. 600/J-98/005, Contribution No. 1773.
- Jaworski, N.A., R.W. Howarth and L.J. Hetling. 1997. Atmospheric Deposition of Nitrogen Oxides Onto the Landscape Contributes To Coastal Eutrophication In the Northeast United States. Environmental Science and Technology 31(7):1995-2004. 600/J-98/076, Contribution No. 1835.
- Johnson, K.A., G.M. Calliet, M. Stephenson and G. Gardner. 1997. Frequency and Determination of External Lesions in Dover Sole (*Microstomus pacifica*) and English Sole (*Pleuronectes vetulus*) in Monterey Bay, CA. Southern Monterey Bay Continental Shelf Investigations: Former Fort Ord Restricted Area, US Dept of Interior, US Geological Survey, 1997, Open File Report 97-450, pp 104-113. Contribution No. AED-98-1962.
- Jones, K.W., W.J. Berry, D.J. Borsay, H.T. Cline, W.C. Conner and C.S. Fullmer. 1997. Applications of Synchrotron Radiation-Induced X-Ray Emission (SRIXE). X-Ray Spectrometry 26:350-358. 600/J-98/080, Contribution No. 1804.
- Keller, A.A., P.E. Hargraves, H. Jeon, G. Klein-Macphee, E.G. Klos, C.A. Oviatt and J. Zhang. 1997. Ultraviolet-B Radiation Enhancement Does Not Affect Marine Trophic Levels During a Winter-Spring Bloom. *Ecoscience* 4(2):129-139. 600/J-98/079, Contribution No. X248.
- Keller, A.A., P.E. Hargraves, H. Jeon, G. Klein-MacPhee, E.G. Klos, C.A. Oviatt and J. Zhang. 1997. Effects of Ultraviolet-B Enhancement on Marine Trophic Levels in a Stratified Coastal System. *Marine Biology* 130:277-287 Contribution No. AED-97-X252.
- Munns, W.R., Jr., D.E. Black, T.R. Gleason, K. Salomon, D.A. Bengtson and R.E. Gutjahr-Gobell. 1997. Evaluation of the Effects of Dioxin and PCBs On *Fundulus heteroclitus* Populations Using a Modeling Approach. Environmental Toxicology and Chemistry 16(5):1074-1081. 600/J-97/343, Contribution No. 1621.
- Pelletier, M.C., R.M. Burgess, K.T. Ho, A. Kuhn, R.A. McKinney and S.A. Ryba. 1997. Phototoxicity of Individual Polycyclic Aromatic Hydrocarbons and Petroleum To Marine Invertebrate Larvae and Juveniles. Environmental Toxicology and Chemistry 16(10):2190-2199. 600/J-98/075, Contribution No. 1790.
- Rhodes, L.D., G.R. Gardner and R.J. Van Beneden. 1997. Short-Term Tissue Distribution, Depuration and Possible Gene Expression Effects of [3H]TCDD Exposure In Soft-Shell Clams (*Mya arenaria*). Environmental Toxicology and Chemistry 16(9):1888-1894. 600/J-98/003, Contribution No. 1826.
- Thursby, G.B., J.F. Heltshe and K.J. Scott. 1997. Revised Approach To Toxicity Test Acceptability Criteria Using a Statistical Performance Assessment. Environmental Toxicology and Chemistry 16(6):1322-1329. 600/J-97/344, Contribution No. 1732.
- Watson, M. and G. Gardner. 1997. The Shoalwater Bay Reservation: A Limited Environmental Assessment: 1994-1995. Manchester Laboratory, Region 10, Office of Environmental Assessment, U.S. EPA EPA/910/R-96-013, Contribution No. 1912.
- Zarogian, G.E. 1997. Use of Monochlorobimane To Determine the In Vivo Effect of Cadmium, Copper and Lead On Glutathione Status In *Mercenaria mercenaria* Brown Cells. *Comparative Biochemistry and Physiology* 116c(2):117-123. 600/J-98/255, Contribution No. 1793.
- 1996
- Abdelrhman, M.A., J.F. Paul and W.R. Davis. 1996. Analysis Procedure For and Application of a Device For Simulating Sediment Entrainment. *Marine Geology* 129:337-350. 600/J-96/212, Contribution No. 1524.
- Allen, H.E. and D.J. Hansen. 1996. The Importance of Trace Metal Speciation to Water Quality Criteria. *Water Environment Research* 68(1):42-54. 600/J-96/211, Contribution No. 1558.

Ankley, G.T., W.J. Berry, D.M. Di Toro, D.J. Hansen, R.A. Hoke, D.R. Mount, M.C. Reiley, R.C. Swartz and C.S. Zarba. 1996. Use of Equilibrium Partitioning to Establish Sediment Quality Criteria for Nonionic Chemicals: A Reply to Iannuzzi et al.. *Environmental Toxicology and Chemistry*, 15(7):1019-1024. Contribution No. 1796.

Ankley, G.T., D.M. Di Toro, D.J. Hansen and W.J. Berry. 1996. Technical Basis and Proposal For Deriving Sediment Quality Criteria For Metals. *Environmental Toxicology and Chemistry* 15(12):2056-2066. 600/J-97/214, Contribution No. 1757.

Ankley, G.T., D.M. Di Toro, D.J. Hansen and W.J. Berry. 1996. Editorial: Assessing the Ecological Risk of Metals in Sediments. *Environmental Toxicology and Chemistry* 15(12):2053-2055. Contribution No. 1820.

Barry, J.P., C.B. Norwood and P. Vouros. 1996. Detection & Identification of Benzo[A]Pyrene Diol Epoxide Adducts To DNA Utilizing Capillary Electrophoresis-Electrospray Mass Spectrometry. *Analytical Chemistry* 68(8):1432-1438. 600/J-96/505, Contribution No. 1798.

Battle, M., M.L. Bender, T. Sowers, P.P. Tans, J.H. Butler, J.W. Elkins, J.T. Ellis, T. Conway and N. Zhang. 1996. Atmospheric Gas Concentrations Over the Past Century Measured In Air From Firm At the South Pole. *Nature* 383:231-235. 600/J-97/192, Contribution No. X246.

Beider, K., M.P. Gant, M. Ramsay and G. Schultz. 1996. Proceedings - Delmarva's Coastal Bay Watersheds: Not Yet Up the Creek.. U.S. EPA, National Health and Environmental Effects Research Laboratory, Atlantic Ecology Division, Narragansett, RI 600/R-96/052, Contribution No. 1787.

Bergen, B.J., W.G. Nelson and R.J. Pruell. 1996. Comparison of Nonplanar and Coplanar PCB Congener Partitioning In Seawater and Bioaccumulation In Blue Mussels (*Mytilus Edulis*). *Environmental Toxicology and Chemistry* 15(9):1517-1523. 600/J-97/190, Contribution No. 1689.

Berry, W.J., D.J. Hansen, J.D. Mahony, D.L. Robson, D.M. Di Toro, B.P. Shipley, B.A. Rogers, J.M. Corbin and W.S. Boothman. 1996. Predicting the Toxicity of Metal-Spiked Laboratory Sediments Using Acid-Volatile Sulfide and Interstitial Water Normalizations. *Environmental Toxicology and Chemistry* 15(12):2067-2079. 600/J-97/215, Contribution No. 1622.

Boese, B.L., H. Lee II, D.T. Specht, J. Pelletier and R.C. Randall. 1996. Evaluation of PCB and Hexachlorobenzene Biota- Sediment Accumulation Factors Based On Ingested Sediment In a Deposit-Feeding Clam. *Environmental Toxicology and Chemistry* 15(9):1584-1589. 600/J-97/191, Contribution No. N293.

Brown, D.J., G.C. Clark, G.R. Gardner and R.J. Van Beneden. 1996. Identification of Dioxin-Specific Binding Proteins In Marine Bivalves. *Marine Environmental Research* 42(1-4):7-11. 600/J-96/507, Contribution No. 1800.

Burgess, R.M., K.T. Ho, G.E. Morrison, G. Chapman and D.L. Denton. 1996. Marine Toxicity Identification Evaluation (TIE): Phase I Guidance Document. 600/R-96/054, Contribution No. 1788.

Burgess, R.M., R.A. McKinney and W.A. Brown. 1996. Enrichment of Marine Sediment Colloids With Polychlorinated Biphenyls: Trends Resulting From PCB Solubility & Chlorination. *Environmental Science & Technology* 30(8):2556-2566. 600/J-96/508, Contribution No. 1715.

Burgess, R.M., R.A. McKinney, W.A. Brown and J.G. Quinn. 1996. Isolation of Marine Sediment Colloids & Associated Polychlorinated Biphenyls: An Evaluation of Ultrafiltration & Reverse-Phase Chromatography. *Environmental Science & Technology* 30(6):1923-1932. 600/J-96/504, Contribution No. 1701.

Comeleo, R.L., J.F. Paul, P.V. August, J.L. Copeland, C. Baker, S.S. Hale and R.W. Latimer. 1996. Relationships Between Watershed Stressors and Sediment Contamination In Chesapeake Bay Estuaries. *Landscape Ecology* 11(5):307-319. 600/J-97/167, Contribution No. 1646.

Dewitt, T.H., R.C. Swartz, D.J. Hansen, D.G. McGovern and W.J. Berry. 1996. Bioavailability and Chronic Toxicity of Cadmium In Sediment To the Estuarine Amphipod *Leptocheirus Plumulosus*. *Environmental Toxicology and Chemistry* 15(12):2095-2101. 600/J-97/164, Contribution No. 1738.

Di Toro, D.M., J.D. Mahony, D.J. Hensen and W.J. Berry. 1996. Model of the Oxidation of Iron and Cadmium Sulfide In Sediments. *Environment Toxicology and Chemistry* 15(12):2168-2186. 600/J-97/213, Contribution No. 1834.

Draxler, J.A.F., V. Zdanowicz, A.D. Deshpande, T. Finneran, L. Arlen, D. Packeri, W.R. Davis and H. White. 1996. Physical, Chemical and Microbial Properties of Sediments at the 106-Mile Sewage Sludge Dumpsite. *Journal of Marine Environmental Engineering* 2:343-368. 600/J-97/217, Contribution No. 1833.

Gleason, T.R. and D.A. Bengtson. 1996. Size-Selective Mortality of Inland Silversides: Evidence From Otolith Microstructure. *Transactions of the American Fisheries Society* 125:860-873. 600/J-97/166, Contribution No. 1640.

Gleason, T.R. and D.A. Bengtson. 1996. Growth, Survival and Size-Selective Predation Mortality of Larval and Juvenile Inland Silversides, *Menidia Beryllina* (Pisces: Atherinidae). *Journal of Experimental Marine Biology and Ecology* 199: 165-177. 600/J-97/193, Contribution No. X227.

Godshall, F.A. and H.A. Walker. 1996. Climate Change and Winter Coastal Marine Circulation in the Mid-Atlantic Region of the United States. In: *The Northeast Shelf Ecosystem: Assessment, Sustainability, and Management*. K. Sherman, N.A. Jaworski, and T.J. Smayda, editors. Cambridge, MA: Blackwell Science. pp. 95-101. Contribution No. 1336.

Gundersen, J.L. and W.G. Macintyre. 1996. Dissociation Constants of Chloroguaiacols In Water: a Comparison of Measured & Predicted Values. *Environmental Toxicology & Chemistry* 15(6):809-813. 600/J-96/506, Contribution No. 1739.

Hansen, D.J., W.J. Berry, J.D. Mahony, W.S. Boothman, D.M. Di Toro, D.L. Robson, G.T. Ankley and D. Ma. 1996. Predicting the Toxicity of Metal-Spiked Laboratory Sediments Using Acid-Volatile Sulfide and Interstitial Water Normalizations. *Environmental Toxicology and Chemistry* 15(12):2080-2094. 600/J-97/212, Contribution No. 1575.

Hansen, D.J., J.D. Mahony, W.J. Berry and S.J. Benyi. 1996. Chronic Effect of Cadmium In Sediments On Colonization By Benthic Marine Organisms: An Evaluation of the Role of Interstitial Cadmium and Acid-Volatile Sulfide In Biological Availability. *Environmental Toxicology and Chemistry* 15(12):2126-2137. 600/J-97/244, Contribution No. 1567.

Helmstetter, A., A.P. Gernerding and R.J. Pruell. 1996. Acute Toxicity of Methanol To *Mytilus Edulis*. *Bulletin of Environmental Contamination and Toxicology* 57:675-681. 600/J-97/216, Contribution No. 1687.

Howarth, R.W., G. Billen, D. Swaney, A. Townsend, N.A. Jaworski, K. Lajtha, J.A. Downing, R. Elmgren, N. Caraco, T. Jordan, F. Berendse, J. Freney, V. Kuddeyarov, P. Murdoch and Z. Zhao-Liang. 1996. Regional Nitrogen Budgets and Riverine N & P Fluxes For the Drainages To the North Atlantic Ocean: Natural and Human Influences. *Biogeochemistry* 35:75-139. 600/J-98/397, Contribution No. 1699.

Jaworski, N.A. and R.W. Howarth. 1996. Preliminary Estimates of the Pollutant Loads and Fluxes Into the Northeast Shelf Ecosystem. *The Northeast Shelf Ecosystem: Assessment, Sustainability, and Management*. Cambridge, MA.: Blackwell Science. 600/A-98/137, Contribution No. 1518.

Johnston, R.K., W.R. Munns Jr., L.J. Mills, F.T. Short and H.A. Walker. 1996. Estuarine Ecological Risk Assessment For Portsmouth Naval Shipyard, Kittery, Maine: Phase I. Problem Formulation. 600/R-96/058, Contribution No. 1651.

Keeling, R.F. and S.C. Piper. 1996. Global & Hemispheric CO₂ Sinks Deduced From Changes In Atmospheric O₂ Concentration. *Nature* 381:218-221. 600/J-96/503, Contribution No. X244.

Kuhn, A., M. Pelletier and K.T. Ho. 1996. Phase I Toxicity Identification Evaluation (TIE) for New York/New Jersey Harbor Estuary Sediments. Internal Report to Eric Stern, Coordinator, Regional Contaminated Sediment Program, US EPA, Region 2, NY, NY. Contribution No. 1746.

Lake, J.L., R.A. McKinney, F.A. Osterman and C.A. Lake. 1996. C-18-Coated Silica Particles As a Surrogate For Benthic Uptake of Hydrophobic Compounds From Bedded Sediment. *Environmental Toxicology and Chemistry* 15(12):2284-2289. 600/J-97/165, Contribution No. 1643.

Latimer, J.S. and J.G. Quinn. 1996. Historical Trends and Current Inputs of Hydrophobic Organic Compounds In a Urban Estuary: the Sedimentary Record. *Environmental Science & Technology* 30:623-633. 600/J-96/209, Contribution No. X240.

Lebo, J.A., J.N. Huckins, J.D. Petty, C.E. Orazio and K.T. Ho. 1996. Laboratory Explorations of the Feasibility and Methods for Removal of Toxic Organics from Marine Sediments. Final Report in Fulfillment of IAG #DW4941668-01-0, April 12, 1996 Contribution No. 1769.

Lussier, S.M., W.S. Boothman, S.L. Poucher, D. Champlin and A. Helmstetter. 1996. Derivation of Conversion Factors for Dissolved Saltwater Aquatic Life Criteria for Metals: Draft Report To the EPA Office of Water. Contribution No. 1649.

Lussier, S.M., D. Champlin, A. Kuhn and J.F. Heltshe. 1996. Mysid (*Mysidopsis Bahía*) Life-Cycle Test: Design Comparisons and Assessment. In: *Environmental Toxicology and Risk Assessment 5th Volume*, D.A. Bengtson, D.S. Henshel (Eds) *Astm Spp* 1306, 1996, Astm Publishing, W. Conshohocken, PA pp. 257-269 600/J-99/164, Contribution No. 1645.

Munns, W.R., Jr., T.R. Gleason, N. Clancy, A.A. Keller, S.L. Poucher and S.M. Lussier. 1996. Development of Population Models For the Risk Based Approach To Criteria Derivation: Interim Report. 600/X-96/007, Contribution No. 1726.

Munns, W.R., Jr. 1996. Use of Bioaccumulation Data In Aquatic Life Risk Assessment. *Proceedings of the National Sediment Conference*, Bethesda, Md., September 11-13, 1996 600/A-98/148, Contribution No. 1807.

Munns, W.R., Jr., H.A. Walker, J.F. Paul and J.H. Gentile. 1996. A Prospective Assessment of Ecological Risks to Upper Water Column Populations from Ocean Disposal at the 106-Mile Dumpsite. *Journal of Marine Environmental Engineering* 3:279-297. 600/J-97/162, Contribution No. 1566.

Nacci, D.E., S. Cayula and E.H. Jackim. 1996. Detection of DNA Damage In Individual Cells From Marine Organisms Using the Single Cell Gel Assay. *Aquatic Toxicology* 35:197-210. 600/J-97/243, Contribution No. 1665.

Nelson, W.G., B.J. Bergen, S.J. Benyi, G.E. Morrison, R.A. Voyer, C.J. Strobel, S.A. Rego, G.B. Thursby and C.E. Pesch. 1996. New Bedford Harbor Long-Term Monitoring Assessment Report: Baseline Sampling. 600/R-96/097, Contribution No. 1792.

Paul, J.F., H.A. Walker and W.R. Munns Jr. 1996. Evaluation of Assessments Conducted Prior To Disposal of New York/New Jersey Sludge At the 106-Mile Dumpsite. *Journal of Marine Environmental Engineering* 3:299-312. 600/J-97/163, Contribution No. 1573.

Rohlf, F.J., H.R. Akcakaya and S.P. Ferraro. 1996. Optimizing Composite Sampling Protocols. *Environmental Science and Technology* 30(10):2899-2905. 600/J-97/345, Contribution No. N198.

Shigeki, M., S. Susarla, J.L. Gundersen and Y. Yonezawa. 1996. Pathway & Rate of Chlorophenol Transformation In Anaerobic Estuarine Sediment. *Environmental Science & Technology* 30(4):1253-1260. 600/J-96/502, Contribution No. 1740.

Sigleo, A.C. 1996. Biochemical Components In Suspended Particles and Colloids: Carbohydrates In the Potomac and Patuxent Estuaries. *Organic Geochemistry* 24(1):83-93. 600/J-97/218, Contribution No. N150.

Tracey, G.A. and D.J. Hansen. 1996. Use of Biota-Sediment Accumulation Factors To Assess Similarity of Nonionic Organic Chemical Exposure To Benthically-Coupled Organisms of Differing Trophic Mode. *Archives of Environmental Contamination & Toxicology* 30:467-475. 600/J-96/501, Contribution No. 1641.

Wolfe, D.A., E.R. Long and G.B. Thursby. 1996. Sediment Toxicity In the Hudson-Raritan Estuary: Distribution and Correlations With Chemical Contamination. *Estuaries* 19(4):901-912. 600/J-97/242, Contribution No. 1717.

1995

Abdelrhman, M.A. and E.H. Dettmann. 1995. Two-Dimensional Modeling of Current Circulation and Contaminant Transport In Surface Waters. Workshop On Next Generation of Environmental Models Computation Methods, Bay, City, Mi, Aug. 7-9. 600/A-96/002, Contribution No. 1741.

Behrenfeld, M.J., D.R.S. Lean and H. Lee II. 1995. Ultraviolet-B Radiation Effects on Inorganic Nitrogen Uptake by Natural Assemblages of Oceanic Plankton. *Journal of Phycology* 31:25-36. 600/J-95/429, Contribution No. 1458.

Boese, B.L., M.H. Winsor, H. Lee II, S. Echols, J. Pelletier and R.C. Randall. 1995. PCB Congeners and Hexachlorobenzene Biota Sediment Accumulation Factors For #Macoma Nasuta# Exposed To Sediments With Different Total Organic Carbon Contents. *Environmental Toxicology & Chemistry* 14(2):303-310. 600/J-95/282, Contribution No. N236.

Boynton, W.R., J.H. Garber, R. Summers and W.M. Kemp. 1995. Inputs, Transformations, and Transport of Nitrogen and Phosphorus in Chesapeake Bay and Selected Tributaries. *Estuaries* 18(18):285-314. 600/J-95/426, Contribution No. 1544.

Burgess, R.M., K.T. Ho, M.D. Tagliabue, A. Kuhn, R.L. Comeleo, P. Comeleo, G. Modica and G.E. Morrison. 1995. Toxicity Characterization of An Industrial and a Municipal Effluent Discharging To the Marine Environment. *Marine Pollution Bulletin* 30(8):524-535. 600/J-96/009, Contribution No. 1591.

Chisholm, S.W. 1995. Iron Hypothesis: Basic Research Meets Environmental Policy. *Reviews of Geophysics, Supplement* 1277-1286. 600/J-96/005, Contribution No. X230.

Davis, W.R., R.A. McKinney and W.D. Watkins. 1995. Response of the Hudson Shelf Valley Sewage Sludge-Sediment Reservoir to Cessation of Disposal at the 12-Mile Site. In: U.S. Department of Commerce NOAA Technical Report NMFS124. Contribution No. 1313.

Doering, P.H., C.A. Oviatt, B.L. Nowicki, E.G. Klos and L.W. Reed. 1995. Phosphorous and Nitrogen Limitation of Primary Production In a Simulated Estuarine Gradient. *Marine Ecology Progress Series* 124:271-287. 600/J-96/006, Contribution No. X242.

Ferraro, S.P. and F.A. Cole. 1995. Taxonomic Level Sufficient For Assessing Pollution Impacts On the Southern California Bight Macrobenthos - Revisited. *Environmental Toxicology & Chemistry* 14(6):1031-1040. 600/J-95/424, Contribution No. N246.

Folmar, L.C., J.C. Harshbarger, P.C. Baumann, G.R. Gardner and S. Bonomelli. 1995. Pathological and Serum Chemistry Profiles of Brown Bullheads (#*Ameriurus Nebulosus*;) From the Black River and Old Woman Creek, Ohio. *Bulletin of Environmental Contamination & Toxicology* 54:50-59. 600/J-95/283, Contribution No. 1607.

Friedman, C.S., G.R. Gardner, R.P. Hedrick, M.D. Stephenson and R.J. Cawthorn. 1995. *Pseudoklossia Haliotis* Sp. N. (#*Apicomplexa*;) From the Kidney of California Abalone, *Haliotis* Spp. (#*Mollusca*;) *Journal of Invertebrate Pathology* 66:33-38. 600/J-97/241, Contribution No. 1608.

Gardner, G.R., J.C. Harshbarger, J.L. Lake, T.K. Sawyer, K.L. Price, M.D. Stephenson, P.L. Haaker and H.A. Togstad. 1995. Association of Prokaryotes With Symptomatic Appearance of Withering Syndrome In Black Abalone #*Haliotis Cracherodii*;. *Journal of Invertebrate Pathology* 66:111-120. 600/J-96/008, Contribution No. 1542.

Godshall, F.A., H.A. Walker and S. Cayula. 1995. Scales of Coastal Wind Variability Addressed by COADS Wind Summaries in 2 Degree Square Areas. In: *Proceedings of the International COADS Winds Workshop*, Kiel, Germany, 31 May -2 June 1994. Henry F. Diaz and Hans-Jorg Isemer, editors. Kiel: Institut fur Meereskunde. Contribution No. 1619.

Hetling, L.J. and N.A. Jaworski. 1995. The Evolution of Federal and State Roles in Water Quality Management. Presented at the Eleventh Annual International Conference, Environmental Protection: The Role of the State, Organized by Sherkin Island Marine Station, Cork, Ireland, November 2 & 3, 1995. Contribution No. 1743.

Ho, K.T., K. Mitchell, M. Zappala and R.M. Burgess. 1995. Effects of Brine Addition on Effluent Toxicity and Marine Toxicity Identification Evaluation (TIE) Manipulations. *Environmental Toxicology and Chemistry* 14(2):245-249. 600/J-95/236, Contribution No. 1537.

Keeling, R.F. 1995. Atmospheric Oxygen Cycle: the Oxygen Isotopes of Atmospheric CO₂ And O₂ and the O₂/N₂ Ratio. *Reviews of Geophysics Supplement* 1253-1262. 600/J-96/204, Contribution No. X231.

Keeling, R.F. and T.H. Peng. 1995. Transport of Heat, CO₂ and O₂ By the Atlantic'S Thermohaline Circulation. *Philosophical Transactions of the Royal Society of London B* 348:133-142. 600/J-96/205, Contribution No. X232.

Kuehl, D.W. and R.J. Haebler. 1995. Organochlorine, Organobromine, Metal, and Selenium Residues In Bottlenose Dolphins (#*Tursiops Truncatus*;) Collected During An Unusual Mortality Event In the Gulf. *Archives of Environmental Contamination & Toxicology of Mexico*, 1990 28:494-499. 600/J-95/423, Contribution No. 1698.

Lake, C.A., J.L. Lake, R.J. Haebler, R.A. McKinney, W.S. Boothman and S.S. Sadove. 1995. Contaminant Levels In Harbor Seals From the Northeastern United States. *Archives of Environmental Contamination & Toxicology* 29: 128-134. 600/J-95/428, Contribution No. 1565.

Lake, J.L., R.A. McKinney, C.A. Lake, F.A. Osterman and J.F. Heltshe. 1995. Comparisons of Patterns of Polychlorinated Biphenyl Congeners in Water, Sediment, and Indigenous Organisms from New Bedford Harbor, Massachusetts. *Archives of Environmental Contamination and Toxicology* 29:207-220. 600/J-96/010, Contribution No. 1598.

Nelson, W.G., B.J. Bergen and D.J. Cobb. 1995. Comparison of PCB and Trace Metal Bioaccumulation in the Blue Mussel, *Mytilus Edulis*, and the Ribbed Mussel, *Modiolus Demissus*, in New Bedford Harbor, Massachusetts. *Environmental Toxicology and Chemistry* 14(3):513-521. 600/J-95/229, Contribution No. 1521.

Olsen, R.J. and E.R. Zettler. 1995. Potential Flow Cytometry For Pump and Probe Fluorescence Measurements of Phytoplankton Photosynthetic Characteristics. *Limnology & Oceanography* 40(4):816-820. 600/J-96/004, Contribution No. X221.

Oviatt, C.A., P.H. Doering, B.L. Nowicki, L.W. Reed, J. Cole and J.B. Frithsen. 1995. Ecosystem Level Experiment On Nutrient Limitation In Temperate Coastal Marine Environments. *Marine Ecology Progress Series* 116:171-179. 600/J-95/230, Contribution No. X233.

Ozretich, R.J., L.M. Smith and F.A. Roberts. 1995. Reversed-Phase Separation of Estuarine Interstitial Water Fractions and the Consequences of C18 Retention of Organic Matter. *Environmental Toxicology & Chemistry* 14(8):1261-1272. 600/J-96/007, Contribution No. N233.

Paul, J.F. and G.E. Morrison. 1995. Watershed Stressors and Environmental Monitoring and Assessment Program Estuarine Indicators for South Shore Rhode Island. In: Seminar Publication: National Conference on Environmental Problem-Solving with Geographic Information Systems. September 21-23, 1994, Cincinnati, OH, EPA/625/R-95/004. Cincinnati: U.S. Environmental Protection Agency. Center for Environmental Research Information. pp. 101-109 Contribution No. 1648.

Pelletier, M.C., M. Huber, G.E. Morrison and R.M. Burgess. 1995. Method for Assessing the Toxicity of Sediment-Associated Contaminants with the Bivalve, *Mulinia lateralis*. Draft Report Contribution No. 1721.

Perez, K.T. 1995. Role and Significance of Scale to Ecotoxicology. In: *Ecological Toxicity Testing: Scale, Complexity, and Relevance*. John Cairns, Jr. and B. R. Niederlehner, editors. Boca Raton: Lewis Publishers. pp.49-72. Contribution No. 1435.

Pesch, C.E., D.J. Hansen, W.S. Boothman and W.J. Berry. 1995. Role of Acid-Volatile Sulfide and Interstitial Water Metal Concentrations In Determining Bioavailability of Cadmium/ Nickel From Contaminated Sediments To the Marine Polychaete #*Neanthes Arenaceodentata*#. Mahony, J.D. *Environmental Toxicology & Chemistry* 14(1):129-141. 600/J-95/238, Contribution No. 1520.

Schimmel, S.C. and G.B. Thursby. 1995. Session 4: Predicting Receiving System Impacts from Effluent Toxicity: The Marine Perspective. SETAC Workshop on Whole Effluent Toxicity Tests, September 16 - 21, 1995 (NTIS Version) Contribution No. 1712.

Schimmel, S.C. and G.B. Thursby. 1995. Predicting Receiving System Impacts From Effluent Toxicity: a Marine Perspective. Setac Pellston Workshop On Whole Effluent Toxicity Tests, Pellston, Mi, Sept. 16-21. 600/A-96/034, Contribution No. 1736.

Schlekat, C.E., K.J. Scott, R.C. Swartz, B. Albrecht, L. Antrim, K. Doe, S. Douglas and J.A. Ferretti. 1995. Interlaboratory Comparison of a 10-Day Sediment Toxicity Test Method Using #*Ampelisca Abdita*, #*Eohaustorius Estuarius*#, and #*Leptocheirus Plumulosus*#. *Environmental Toxicology & Chemistry* 14(12):2163-2174. 600/J-96/203, Contribution No. 1744.

Sigleo, A.C. and P.J. Neale. 1995. Phytoplankton Pigment Profiles At the Weddell-Scotia Confluence During the 1993 Austral Spring. *Antarctic Journal of the United States - Review* 1994 29(5):147-148. 600/J-96/210, Contribution No. N280.

Sikorski, R.J., A.C. Sigleo and P.J. Neale. 1995. Spectral Measurements of Ultraviolet and Visible Solar Irradiance At the Wendell-Scotia Confluence During 1993 Austral Spring. *Antarctic Journal of the United States - Review* 1994 29(5):270-272. 600/J-96/207, Contribution No. N282.

Strobel, C.J., D.J. Klemm, L.B. Lobring, J.W. Eichelberger, A. Alford-Stevens, B.B. Potter, R.F. Thomas, J.M. Lazorchak, G.B. Collins and R.L. Graves. 1995. Environmental Monitoring and Assessment Program (EMAP), Laboratory Methods Manual, Estuaries, Volume 1 - Biological and Physical Analyses. Office of Research and Development, U.S. EPA, Narragansett, RI EPA/620/R-95/008, Contribution No. 1716.

Strobel, C.J. and R.M. Valente. 1995. Quality Assurance Report 1990-1993 - EMAP-Virginian Province. 620/R-95/007, Contribution No. 1639.

Summers, J.K., J.F. Paul and A. Robertson. 1995. Monitoring the Ecological Condition of Estuaries In the United States. *Toxicological & Environmental Chemistry* 49:93-108. 600/J-96/208, Contribution No. 1737.

Swartz, R.C., D.W. Schults, R.J. Ozretich, J.O. Lamberson, F.A. Cole, T.H. Dewitt, M.S. Redmond and S.P. Ferraro. 1995. Epah: a Model To Predict the Toxicity of Polynuclear Aromatic Hydrocarbon Mixtures In Field-Collected Sediments. *Environmental Toxicology & Chemistry* 14(11):1977-1987. 600/J-96/206, Contribution No. N284.

Thursby, G.B. and R.L. Steele. 1995. Sexual Reproduction Tests with Marine Seaweeds (Macroalgae). Chapter 5 in: *Fundamentals of Aquatic Toxicology*, 2nd. ed. G.M. Rand, editor. Washington DC: Taylor and Francis. pp. 171-188. Contribution No. 1724.

Zarogian, G.E. and R.A. Voyer. 1995. Interactive Cytotoxicities of Selected Organic and Inorganic Substances To Brown Cells of #*Mercenaria Mercenaria*#. *Cell Biology and Toxicology* 11:263-271. 600/J-96/202, Contribution No. 1525.

Zarogian, G.E. and S.C. Anderson. 1995. Comparison of Cadmium, Nickel, and Benzo(a)pyrene Uptake into Cultured Brown Cells of the Hard Shell Clam, *Mercenaria Mercenaria*. *Comparative Biochemistry and Physiology* 111C(1): 109-116. 600/J-95/422, Contribution No. 1448.

- Abdelrhman, M.A. and E.H. Dettmann. 1994. Modeling of Dredged Material Disposal In Shallow Waters Near Calcasieu River and Pass Bar Channel, Gulf of Mexico. 600/X-94/009, Contribution No. 1547.
- Ankley, G.T., N.A. Thomas, D.M. Di Toro, D.J. Hansen, J.D. Mahony, W.J. Berry, R.C. Swartz and R.A. Hoke. 1994. Assessing Potential Bioavailability of Metals In Sediments: a Proposed Approach. *Environmental Management* 18(3):331-337, 1994 600/J-94/483, Contribution No. 1485.
- Barry, J.P., P. Vouros and C.B. Norwood. 1994. Analysis of DNA-Carcinogens Adducts By Electrospray CZE-MS. 42nd Asms Conf. On Mass Spectrometry & Allied Topics, May 29-June 3, 1994, Chicago, IL 600/A-94/260, Contribution No. 1632.
- Baumgartner, D.J., W.E. Frick and P.J.W. Roberts. 1994. Dilution Models For Effluent Discharges (Third Edition). 600/R-94/086, Contribution No. N268.
- Behrenfeld, M.J., H. Lee II and L.F. Small. 1994. Interactions Between Nutritional Status and Long-Term Responses To Ultraviolet-B Radiation Stress In a Marine Diatom. *Marine Biology* 118:523-530. 600/J-95/425, Contribution No. N238.
- Bender, M.L., P.P. Tans, J.T. Ellis, J. Orchardo and K. Habfast. 1994. High Precision Isotope Ratio Mass Spectrometry Method For Measuring the O₂/N₂ Ratio of Air. *Geochimica Et Cosmochimica* 58(21):4751-4758. 600/J-95/237, Contribution No. X224.
- Burgess, R.M., B.A. Rogers, S.A. Rego, J.M. Corbin and G.E. Morrison. 1994. Sand Spiked with Copper as a Reference Toxicant Material for Sediment Toxicity Testing: a Preliminary Evaluation. *Archives of Environmental Contamination and Toxicology* 26:163-168. 600/J-94/091, Contribution No. 1424.
- Burgess, R.M., K.T. Ho and G.E. Morrison. 1994. Marine Toxicity Identification Evaluation (TIE) Procedures Manual - Phase I. 600/X-94/006, Contribution No. 1527.
- Burgess, R.M. and G.E. Morrison. 1994. Short-Exposure, Sublethal, Sediment Toxicity Test Using the Marine Bivalve #Mulinia Lateralis#: Statistical Design and Comparative Sensitivity. *Environmental Toxicology & Chemistry* 13(4):571-580, 1994 600/J-94/484, Contribution No. 1459.
- Depinto, J.V., W.J. Lick and J.F. Paul. 1994. Introduction - Chapter 1. In: Transport & Transformation of Contaminants Near the Sediment-Water Interface. 600/A-94/087, Contribution No. 1509.
- Eiskus, A.A., J.J. Stegeman, J.W. Gooch, D.E. Black and R.J. Pruell. 1994. Polychlorinated Biphenyl Congener Distributions In Winter Flounder As Related To Gender, Spawning Site, and Congener Metabolism. *Environmental Science & Technology* 28:401-407. 600/J-94/232, Contribution No. 1391.
- Erickson, R.J., T.D. Bills, J.R. Clark, D.J. Hansen, J. Knezovich, F.L. Mayer and A.E. McElroy. 1994. Synopsis of Discussion Session on Physicochemical Factors Affecting Toxicity. In: Bioavailability: Physical, Chemical, and Biological Interactions. SETAC Special Publications Series. Boca Raton: Lewis Publishers, 1994. Chapter 3: pp. 31-38. 600/A-94/243, Contribution No. 1627.
- Falkowski, P.G., R.M. Greene and Z.S. Kolber. 1994. Light Utilization and Photoinhibition of Photosynthesis In Marine Phytoplankton. In: Photoinhibition of Photoxynthesis From Molecular Mechanisms To the Field, Bios Scientific Publishers, 1994 600/A-94/262, Contribution No. X225.
- Ferraro, S.P., R.C. Swartz, F.A. Cole and W.A. Deben. 1994. Optimum Macrobenthic Sampling Protocol For Detecting Pollution Impacts In the Southern California Bight. *Environmental Monitoring & Assessment* 29:127-153. 600/J-94/262, Contribution No. N052.
- Frick, W.E., D.J. Baumgartner and C.G. Fox. 1994. Improved Prediction of Bending Plumes. *Journal of Hydraulic Research* 32(6):945-950. 600/J-95/233, Contribution No. N158.
- Gardner, G.R. 1994. Molluscan Tumor Pathology: Environmental Pollutants and Carcinogen Exposures. In: Invertebrate Neoplasia: Initiation and Promotion Mechanisms. Proceedings of an International Workshop, 23 June 1992, Washington, DC. A. Rosenfield, F. G. Kern, and B. J. Keller, Compilers and Editors. NOAA Technical Memorandum NMFS-NE-107. Contribution No. 1409.
- Greene, R.M., Z.S. Kolber, D.G. Swift, N.W. Tindale and P.G. Falkowski. 1994. Physiological Limitation of Phytoplankton Photosynthesis In the Eastern Equatorial Pacific Determiend From Variability In the Quantum Yield of Fluorescence. *Limnology & Oceanography* 39(5):1061-1074. 600/J-95/231, Contribution No. X220.
- Haebler, R.J. and R.B. Moeller Jr. 1994. Pathobiology of Selected Marine Mammal Diseases. In: Advances In Fisheries Science, Pathobiology of Marine & Estuarine Organisms, Crc Press, Boca Raton, FL. 600/A-94/234, Contribution No. 1275.
- Haebler, R.J. 1994. Biological Effects: Marine Mammals and Sea Turtles. In: Before & After An Oil Spill: the Arthur Kill, Rutgers University Press, New Brunswick, NJ. 600/A-94/178, Contribution No. 1419.
- Ho, K.T., L.J. Mills, C. Mueller, S.C. Anderson and A.R. Malcolm. 1994. The Influence of Sediment Extract Fractionation Methods on Bioassay Results. *Environmental Toxicology and Water Quality: An International Journal* 9:145-154. 600/J-94/481, Contribution No. 1441.
- Johnson, K.S., K.H. Coale, V.A. Elrod and N.W. Tindale. 1994. Iron Photochemistry In Seawater From the Equatorial Pacific. *Marine Chemistry* 46:319-334, 1994 600/J-94/493, Contribution No. X217.
- Keith, D.J. 1994. Survey Report Executive Summary: NOAA/EPA Aquanaut Program Stellwagen Bank/Jeffreys Ledge Field Program Osv Peter W. Anderson - August 25-29, 1994. 600/X-94/038, Contribution No. 1628.
- Kolber, Z.S., R.T. Barber, K.H. Coale, S.E. Fitzwater, R.M. Greene, K.S. Johnson, S. Lindley and P.G. Falkowski. 1994. Iron Limitation of Phytoplankton Photosynthesis In the Equatorial Pacific Ocean. *Nature* 371(8):145-149. 600/J-94/505, Contribution No. X228.

Lake, J.L., R.J. Haebler, R.A. McKinney, C.A. Lake and S.S. Sadove. 1994. PCBs and Other Chlorinated Organic Contaminants In Tissues of Juvenile Kemp's Ridley Turtles (#Lepidochelys Kempii#). *Marine Environmental Research* 38:313-327. 600/J-95/232, Contribution No. 1442.

Landrum, P.F., W.L. Hayton, H. Lee II, L.S. Mccarty, D. Mackay and J.M. Mckim. 1994. Synopsis of Discussion Session On the Kinetics Behind Environmental Bioavailability. In: *Bioavailability: Physical, Chemical & Biological Interactions*, Lewis Publishers, Boca Raton, FL. 600/A-94/235, Contribution No. N281.

Latimer, R.W., J.F. Paul and J.S. Rosen. 1994. EPA's Environmental Monitoring and Assessment Program: Availability of Broad-Scale Environmental Data and Opportunities For Use In Environmental Modeling Applications. In: *Estuaries & Coastal Modeling III*, 3rd International Conference. 600/A-94/179, Contribution No. 1534.

Lee II, H., A. Lincoff, B.L. Boese, F.A. Cole, S.P. Ferraro, J.O. Lamberson and R.J. Ozretich. 1994. Ecological Risk Assessment of the Marine Sediments At the United Heckathorn Superfund Site. Randall, R.C., Rukavina, K.R., Shults, D.W., Sercu, K.A. Specht, D.T. Swartz, R.C. Young. 600/X-94/029, Contribution No. N269.

Lipscomb, T.P., R.K. Harris, A.H. Rebar, B.E. Ballachey and R.J. Haebler. 1994. Pathology of Sea Otters. In: *Marine Mammals and the Exxon Valdez*, Thomas R. Loughlin, editor. San Diego: Academic Press. Chapter 16, pp. 265-279. Contribution No. 1475.

Miller, D.C., D.E. Body, J.C. Sinnett, S.L. Poucher, J.E. Sewall and D.J. Sleczkowski. 1994. Reduced Dissolved Oxygen Test System For Marine Organisms. *Aquaculture* 123:167-171. 600/J-94/370, Contribution No. 1133.

Mills, L.J., S.M. Nelson and A.R. Malcolm. 1994. Effects of Selected Anti-Tumor-Promoting Chemicals On Metabolic Cooperation Between Chinese Hamster V79 Cells. *Toxicology & Applied Pharmacology* 126:338-344, 1994 600/J-94/482, Contribution No. 1434.

Monosson, E. and J.J. Stegeman. 1994. Induced Cytochrome P4501a In Winter Flounder, #Pleuronectes Americanus#, From Offshore and Coastal Sites. *Canadian Journal of Fisheries & Aquatic Science* 51:933-941. 600/J-94/504, Contribution No. X190.

Munns, W.R., Jr., F.T. Short, R.K. Johnston and W.G. Nelson. 1994. Nccosc/Erln Case Study of Estuarine Ecological Risk Assessment At the Naval Shipyard Portsmouth/ Kittery, Maine. 600/X-94/004, Contribution No. 1386.

Munns, W.R., Jr., C. Mueller, B.A. Rogers, S.J. Benyi, S. Cayula, T.R. Gleason, W.G. Nelson and R.K. Johnston. 1994. Risk Assessment Pilot Study - Phase Iii Naval Construction Battalion Center - Davisville, Rhode Island. 600/R-94/046, Contribution No. 1428.

Nacci, D.E. 1994. Adaptation and Validation of a Sperm Toxicity Test Using Sea Urchins Indigenous To the State of Hawaii. 600/X-94/001, Contribution No. X206.

Nacci, D.E., S. Cheer, E.H. Jackim and M.A.R. Juinio. 1994. Semiautomated Fluorometric Analysis of Nucleic Acids In Tissue Homogenates. *Environmental Toxicology and Water Quality: An International Journal* 9:123-130. 600/J-95/228, Contribution No. 1396.

Nacci, D.E. and G.E. Morrison. 1994. ERLN-N Standard Operating Procedure For Conducting a Sperm Toxicity Test Using the Hawaiian Sea Urchin, *Trypneustes Gratilla*. 600/X-94/005, Contribution No. 1516.

Nacci, D.E. 1994. Final Technical Report On Cumulative Results of Sperm Tests Using the Sea Urchin, *Trypneustes Gratilla*. 600/X-94/003, Contribution No. X208.

Nacci, D.E. 1994. Technical Report On Results of Sperm Toxicity Tests Using the Sea Urchin, *Trypneustes Gratilla*. 600/X-94/002, Contribution No. X207.

Norwood, C.B. and P. Vouros. 1994. DNA Modifications - Investigations By Mass Spectrometry. Chapter 3 in: *Mass Spectrometry: Clinical & Medical Applications*, v.2. Desiderio, D.M., ed. New York: Plenum Press. pp. 89-133. 600/A-94/085, Contribution No. 1426.

Olaizola, M., J. Laroche, Z.S. Kolber and P.G. Falkowski. 1994. Non-Photochemical Fluorescence Quenching and the Diadinoxanthin Cycle In a Marine Diatom. *Photosynthesis Research* 41:357-370, 1994 600/J-94/571, Contribution No. X222.

Oviatt, C.A. 1994. Biological Considerations In Marine Enclosure Experiments: Challenges and Revelations. *Oceanography* 7(2):45-51. 600/J-95/281, Contribution No. X234.

Paul, J.F. and E.H. Dettmann. 1994. Lessons Learned From Siting of Boston Harbor Sewage Outfall. In: *Transport & Transformation of Contaminants Near the Sediment-Water Interface*, CRC Press, Boca Raton, FL. 600/A-94/083, Contribution No. 1035.

Paul, J.F., J.V. Depinto and W.J. Lick. 1994. Research Needs and Summary. In: *Transport & Transformation of Contaminants Near the Sediment-Water Interface*, CRC Press, Boca Raton, FL. 600/A-94/084, Contribution No. 1510.

Paul, J.F. 1994. Observations Related to the Use of the Sigma Coordinate Transformation for Estuarine and Coastal Modeling Studies. In: *Estuaries and Coastal Modeling III*, Proceedings of the 3rd International Conference, September 8-10, 1993, Oak Brook, Illinois. pp. 336-350. 600/A-94/180, Contribution No. 1539.

Peters, E.C., P.P. Yevich, J.C. Harshbarger and G.E. Zarogian. 1994. Comparative Histopathology of Gonadal Neoplasms in Marine Bivalve Molluscs. *Diseases of Aquatic Organisms* 20:59-76. 600/J-95/284, Contribution No. 1637.

Redmond, M.S., K.J. Scott, R.C. Swartz and J.K.P. Jones. 1994. Preliminary Culture and Life-Cycle Experiments With the Benthic Amphipod #Ampelisca Abdita#. *Environmental Toxicology & Chemistry* 13(8):1355-1365, 1994 600/J-94/566, Contribution No. N242.

Rohlf, F.J., H.R. Akcakaya and S.P. Ferraro. 1994. Optimizing Composite Sampling Protocols. 600/R-94/048, Contribution No. N197.

- Sanders, B.M., L.S. Martin, S.R. Howe, W.G. Nelson, C.S. Hegre and D.K. Phelps. 1994. Tissue-Specific Differences In Accumulation of Stress Proteins In *Mytilus Edulis* Exposed To a Range of Copper Concentrations. *Toxicology & Applied Pharmacology* 125:206-213. 600/J-95/427, Contribution No. 1440.
- Schimmel, S.C., B.D. Melzian, D.E. Campbell, C.J. Strobel, S.J. Benyi, J.S. Rosen and H.W. Buffum. 1994. Statistical Summary EMAP-Estuaries Virginian Province - 1991. 620/R-94/005, Contribution No. 1455.
- Schlekat, C.E. and K.J. Scott. 1994. Methods For Assessing the Toxicity of Sediment-Associated Contaminants With Estuarine and Marine Amphipods. 600/R-94/025, Contribution No. 1602.
- Strobel, C.J., S.J. Benyi, D.J. Keith, H.W. Buffum and E.A. Petrocelli. 1994. Statistical Summary: EMAP-Estuaries Virginian Province - 1992. 620/R-94/019, Contribution No. 1552.
- Strobel, C.J., H.W. Buffum, S.J. Benyi, E.A. Petrocelli, D.R. Reifsteck and D.J. Keith. 1994. Statistical Summary: EMAP-Estuaries Virginian Province - 1990 To 1993. 620/R-94/026, Contribution No. 1614.
- Swartz, R.C., F.A. Cole, J.O. Lamberson, S.P. Perraro, D.W. Schults, W.A. Deben, H. Lee II and R.J. Ozretich. 1994. Sediment Toxicity, Contamination and Amphipod Abundance At DDT- and Deildrin-Contaminated Site In San Francisco Bay. *Environmental Toxicology & Chemistry* 13(6):949-962, 1994 600/J-94/486, Contribution No. N253.
- Vassiliev, I.R., O. Prasil, K.D. Wyman, Z.S. Kolber, A.K. Hanson Jr., J.E. Prentice and P.G. Falkowski. 1994. Inhibition of Ps Ii Photochemistry By Par and Uv Radiation In Natural Phytoplankton Communities. *Photosynthesis Research* 42:51-64. 600/J-95/235, Contribution No. X223.
- Yevich, P.P. and C.A. Yevich. 1994. Use of Histopathology in Biomonitoring Marine Invertebrates. Chapter 8 In: *Biomonitoring of Coastal Waters and Estuaries*, Edited by Kees J.M. Kramer, CRC Press, Inc., Boca Raton, FL Contribution No. X235.
- Zarogian, G.E. and P.P. Yevich. 1994. Nature and Function of the Brown Cell In *Crassostrea Virginica*. *Marine Environmental Research* 37:355-373. 600/J-94/159, Contribution No. 1189.
- 1993
- Abdelrhman, M.A. and E.H. Dettmann. 1993. Dredged Material Transport At Deep-Ocean Disposal Sites. In: *Coastal Engineering Considerations in Coastal Zone Management, Proceedings, 8th Symposium on Coastal and Ocean Management, July 19-23, 1993, New Orleans*. New York: American Society of Civil Engineers. pp. 216-230. 600/A-93/294, Contribution No. 1456.
- Ashraf, M., D.A. Bengtson and K.L. Simpson. 1993. Effects of Dietary Fatty Acid Enrichment On Survival, Growth, and Salinity-Stress-Test Performance of Inland Silversides. *The Progressive Fish Culturist* 55:280-283. 600/J-94/264, Contribution No. X196.
- Baumgartner, D.J., W.E. Frick and P.J.W. Roberts. 1993. Dilution Models For Effluent Discharges (Addendum). 600/R-93/139, Contribution No. N268.
- Bay, S., R.M. Burgess and D.E. Nacci. 1993. Status and Applications of Echinoid (Phylum Echinodermata) Toxicity Test Methods. Ref: *American Society of Testing & Materials* pp. 281-302. 600/J-93/135, Contribution No. X188.
- Behrenfeld, M.J., J.W. Chapman, J.T. Hardy and H. Lee II. 1993. Is There a Common Response To Ultraviolet-B Radiation By Marine Phytoplankton? *Marine Ecology Progress Series* 102:59-68. 600/J-94/090, Contribution No. N215.
- Behrenfeld, M.J., J.T. Hardy, H. Gucinski, A. Hanneman and H. Lee II. 1993. Effects of Ultraviolet-B Radiation On Primary Production Along Latitudinal Transects In the South Pacific Ocean. Ref: *Marine Environmental Research* 35:349-363. 600/J-93/238, Contribution No. N153.
- Bengtson, D.A. 1993. A Comprehensive Program For the Evaluation of Artificial Diets. Ref: *Journal of World Aquaculture Society* 24(2):285-193. 600/J-93/513, Contribution No. X194.
- Bergen, B.J., W.G. Nelson and R.J. Pruell. 1993. Bioaccumulation of PCB Congeners by Blue Mussels (*Mytilus Edulus*) Deployed in New Bedford Harbor, Massachusetts. *Environmental Toxicology and Chemistry* 12(9): 1671-1681. 600/J-94/003, Contribution No. 1364.
- Bergen, B.J., W.G. Nelson and R.J. Pruell. 1993. Partitioning of Polychlorinated Biphenyl Cogeners In the Seawater of New Bedford, Massachusetts. Ref: *Environmental Science & Technology* 27(5):938-942. 600/J-93/213, Contribution No. 1413.
- Boese, B.L. and H. Lee II. 1993. Synthesis of Methods To Predict Bioaccumulation of Sediment Pollutants. 600/X-93/025, Contribution No. N232.
- Boothman, W.S. and A. Helmstetter. 1993. Vertical and Seasonal Variability of Acid Volatile Sulfides In Marine Sediments. 600/X-93/036, Contribution No. 1389.
- Brown, B.S. and F.A. Godshall. 1993. Cross-Shelf Variation In the Fate of Dredge Material Disposed In the Calcasieu Bar Channel Dredged Material Disposal Site. 600/X-93/039, Contribution No. 1449.
- Burgess, R.M., R.L. Comeleo, M.D. Tagliabue, K.V. Sheehan, A. Kuhn and D.K. Phelps. 1993. Water Column Toxicity From Contaminated Marine Sediments: Effects On Multiple Endpoints of Three Marine Species. Ref: *Environmental Toxicology & Risk Assessment Astm* 1179:303-319. 600/J-93/311, Contribution No. 1191.

Burgess, R.M., K.A. Schweitzer, R.A. McKinney and D.K. Phelps. 1993. Contaminated Marine Sediments: Water Column and Interstitial Toxic Effects. Ref: Environmental Toxicology & Chemistry 12:127-138. 600/J-93/128, Contribution No. 1187.

Chapman, G.A. 1993. Sea Urchin (*Strongylocentrotus Purpuratus*) Fertilization Test Methods. 600/R-93/097, Contribution No. N208.

Chisholm, S.W. and F.M. Morel. 1993. What Controls Phytoplankton Production In Nutrient- Rich Areas of the Open Sea? 600/R-93/120, Contribution No. X203.

Davis, W.R. 1993. The Role of Bioturbation In Sediment Resuspension and Its Interaction With Physical Shearing. Ref: J. Experimental Marine Biology & Ecology 171:187- 200. 600/J-93/488, Contribution No. 1535.

Dettmann, E.H., W.A. Brown, W.M. Warren, M.F. Fox and D.R. Kester. 1993. Final Report of Application of a Wasteload Allocation Model To Multiple Discharge Sources Into An Estuary. 600/X-93/038, Contribution No. 1381.

Dettmann, E.H., W.A. Brown, W.M. Warren, M.F. Fox and D.R. Kester. 1993. A Steady-State Model of Dissolved Oxygen and Nitrogen In the Providence River-Seekonk River Estuary, Rhode Island. 600/X-93/071, Contribution No. 1327.

Dettmann, E.H., D.J. Keith, G.A. Tracey, D. Rowan, B.H. Reynolds and W.A. Brown. 1993. Sediment Toxicity and Contamination In Dredged Navigation Channels Along the Louisiana Coast. 600/X-93/073, Contribution No. 1411.

Dewitt, T.H., J.E. Sewall and R.C. Swartz. 1993. Development of a Chronic Sediment Toxicity Test For Marine Benthic Amphipods. 600/X-93/026, Contribution No. N240.

Ditullio, G.R., D.A. Hutchins and K.W. Bruland. 1993. Interaction of Iron and Major Nutrients Controls Phytoplankton Growth and Species Composition In the Tropical North Pacific Ocean. Limnology & Oceanography 38(3):495-508. 600/J-96/123, Contribution No. X202.

Folmar, L.C., G.R. Gardner, J. Hickey, S. Bonomelli and T. Moody. 1993. Serum Chemistry and Histopathological Evaluations of Brown Bullheads (*Ameiurus Nebulosus*) From the Buffalo and Niagara Rivers, New York. Ref: Archives of Environmental Contamination & Toxicology 25:298-303. 600/J-93/418, Contribution No. 1454.

Frick, W.E. 1993. Dilution Models For Effluent Discharges. 600/X-93/032, Contribution No. N210.

Gardner, G.R. and R.J. Pruell. 1993. Chemical Contamination and Environmentally Related Diseases In Aquatic Organisms At Massachusetts Bay Disposal Site. 600/X-93/047, Contribution No. 1407.

Gardner, G.R. 1993. Chemically Induced Histopathology In Aquatic Invertebrates. In: Advances In Fisheries Science Pathobiology of Marine and Estuarine Organisms. 600/A-93/194, Contribution No. 1228.

Geider, R.J., J. LaRoche, R.M. Greene and M. Olaizola. 1993. Response of the Photosynthetic Apparatus of *Phaeodactylum Tricornutum* (Bacillariophyceae) To Nitrate, Phosphate, Or Iron Starvation. Journal of Phycology 29:755-766, 1993 600/J-94/506, Contribution No. X219.

Geider, R.J., R.M. Greene, Z.S. Kolber, H.L. Macintyre and P.G. Falkowski. 1993. Fluorescence Assessment of the Maximum Quantum Efficiency of Photosynthesis In the Western North Atlantic. Deep-Sea Research I 40(6):1205-1224. 600/J-94/220, Contribution No. X201.

Gentile, J.H., M.A. Harwell, W.H. van der Schalie, S.B. Norton and D.J. Rodier. 1993. Ecological Risk Assessment: A Scientific Perspective. Journal of Hazardous Materials 35:241-253. Contribution No. 1633.

Ho, K.T. and J.G. Quinn. 1993. Bioassay-Directed Fractionation of Organic Contaminants In An Estuarine Sediment Using the New Mutagenic Bioassay, Mutatox. Ref: Environmental Toxicology & Chemistry 12:823-830. 600/J-93/183, Contribution No. 1438.

Ho, K.T. and J.G. Quinn. 1993. Physical and Chemical Parameters of Sediment Extraction and Fractionation That Influences Toxicity As Evaluated By Microtox. Ref: Environmental Toxicology & Chemistry 12:615-625. 600/J-93/141, Contribution No. 1447.

Jaworski, N.A. 1993. The Application of the Ecotone Concept In Defining Nutrient Management Requirements For the Upper Potomac River Basin. Ref: Hydrobiologia 251:341-349. 600/J-93/197, Contribution No. 1504.

Johnston, R.K., W.R. Munns Jr., L.J. Mills, F. Short and H.A. Walker. 1993. An Estuarine Ecological Risk Assessment For Portsmouth Naval Shipyard, Kittery ME - Phase I Draft Final Report. 600/X-93/089, Contribution No. 1471.

Keith, D.J., J. Schoenherr, J. Cook, D.A. Carey and G.A. Tracey. 1993. Final Cruise Report - Location Survey and Condition Inspection of Waste Containers at the Boston Lightship Dumping Ground and Surrounding Area. 600/X-93/072, Contribution No. 1405.

Lamberson, J.O., M.S. Redmond, J.K.P. Jones, J.E. Sewall, J.W. Chapman, F.A. Cole, D.W. Schults and R.C. Swartz. 1993. Development of a 10-Day Amphipod Sediment Toxicity Test For Hawaii. 600/X-93/033, Contribution No. N237.

LaRoche, J., R.J. Geider, L.M. Graziana, H. Murray and K. Lewis. 1993. Induction of Specific Proteins In Eukaryotic Algae Grown Under Iron-, Phosphorus-, Or Nitrogen-Deficient Conditions. Journal of Phycology 29:767-777, 1993 600/J-94/503, Contribution No. X218.

Latimer, R.W., J.F. Paul and J.S. Rosen. 1993. EPA's Environmental Monitoring and Assessment Program: Availability of Broad-Scale Environmental Data and Opportunities For Use in Environmental Modeling Applications. In: Gulf of Maine Data and Information Systems Workshop Proceedings, 3-5 November 1993, Durham, NH. - Draft Contribution No. 1555.

- Lee II, H. 1993. Models, Muddles, and Mud: Predicting Bioaccumulation of Sediment-Associated Pollutants. Book Chapter: Sediment Toxicity Assessment, Lewis Pub. 600/A-93/156, Contribution No. N161.
- Lee II, H., B.L. Boese, J. Pelletier, M.H. Winsor, D.T. Specht and R.C. Randall. 1993. Guidance Manual: Bedded Sediment Bioaccumulation Tests. 600/R-93/183, Contribution No. N271.
- Letcher, B.H. and D.A. Bengtson. 1993. Effects of Food Density and Temperature On Feeding and Growth of Young Inland Silversides #(Menidia Beryl- Lina)#. Journal of Fish Biology 43:671-686. 600/J-94/263, Contribution No. X195.
- Letcher, B.H. and D.A. Bengtson. 1993. Effects of Food Density On Growth and On Patterns of Prey Depletion By Larval Silverside Fish, Menidia Beryl- Lina (Cope)-A Laboratory Investigation With Image Analysis. Ref: Journal of Experimental Marine Biology & Ecology 167(2):197-213. 600/J-93/252, Contribution No. X171.
- Lipscomb, T.P., R.K. Harris, R.B. Moeller Jr., J.M. Pletcher and R.J. Haebler. 1993. Histopathologic Lesion In Sea Otters Exposed To Crude Oil. Ref: Veterinary Pathology 30:1-11, 1993. 600/J-93/184, Contribution No. 1332.
- Malcolm, A.R. 1993. Biomarkers For Estuarine/Near Coastal Waters Assessment Application of Biomarkers In Ecological Risk Assessment Phase I Project Biomarkers Predictive and Diagnostic. 600/X-93/080, Contribution No. 1530.
- Malcolm, A.R. 1993. Biomarkers For Marine Superfund Site Assessment Application of Biomarkers In Ecological Risk Assessment Phase I Project Biomarkers Predictive Or Diagnostic Of. 600/X-93/079, Contribution No. 1529.
- Morrison, G.E., G. Modica and R.L. Comeleo. 1993. Marine Discharge Monitoring Quality Assurance Report - 1992. 600/X-93/034, Contribution No. 1390.
- Mueller, C., W.R. Munns Jr., D.J. Cobb, E.A. Petrocelli, G.G. Pesch, W.G. Nelson, D.M. Burdick, F.T. Short and R.K. Johnston. 1993. Standard Operating Procedures and Field Methods Used for Conducting Ecological Risk Assessment Case Studies. 600/R-93/156, Contribution No. 1263.
- Munns, W.R., Jr., C. Mueller, R. Comeleo, D. Cobb, S. Anderson, G.G. Pesch, W.G. Nelson and R.K. Johnston. 1993. Allen Harbor Risk Assessment Pilot Study; Phase II Draft Final Report. Naval Construction Battalion Center. Davisville, Rhode Island. U.S. EPA, ORD, ERL, Narragansett, RI. Contribution No. 1427.
- Norton, S.B., D.J. Rodier, J.H. Gentile, W.H. van der Schalie and M.W. Slimak. 1993. A Framework For Ecological Risk Assessment at the EPA. Environmental Toxicology and Chemistry 11:1663-1672. 600/J-93/514, Contribution No. 1543.
- Norwood, C.B., E.H. Jackim and S. Cheer. 1993. DNA Adduct Research With Capillary Electrophoresis. Ref: Analytical Chemistry 213:194-199, 1993 600/J-93/487, Contribution No. 1437.
- Paul, J.F. 1993. EMAP - An Approach to Ecological Research, Monitoring and Assessment. Workshop Proceedings 3-5 November 1993 convened by Regional Marine Research Program for the Gulf of Maine, Durham, New Hampshire Contribution No. 1636.
- Pruell, R.J. and R.D. Bowen. 1993. Chemical Markers of Pollution In Marine Sediments. 600/X-93/078, Contribution No. 1371.
- Pruell, R.J., N.I. Rubinstein, B.K. Taplin, J.A. Livolsi and R.D. Bowen. 1993. Accumulation of Polychlorinated Organic Contaminants From Sediment By Three Benthic Marine Species. Ref: Archives of Environmental Contamination & Toxicology 24:290-297. 600/J-93/082, Contribution No. 1331.
- Sanders, B.M. 1993. Stress Proteins In Aquatic Organisms: An Environmental Perspective. Ref: Critical Reviews In Toxicology 23(1):49-75. 600/J-93/198, Contribution No. X193.
- Sigleo, A.C. and M.J. Behrenfeld. 1993. Effects of Uv-B Radiation On Marine Biogeochemical Cycles. 600/X-93/027, Contribution No. N206.
- Sigleo, A.C. and D.J. Shultz. 1993. Amino Acid Composition of Suspended Particles, Sediment-Trap Material, and Benthic Sediment In the Potomac Estuary. Estuaries 16(3a):405-415. 600/J-94/221, Contribution No. N207.
- Thursby, G.B., B.S. Anderson, G.E. Walsh and R.L. Steele. 1993. A Review of the Current Status of Marine Algal Toxicity Testing In the United States. Ref: Environmental Toxicity & Risk Assessment Astm Stp 1179:362-377. 600/J-93/309, Contribution No. 1272.
- Thursby, G.B. 1993. Complex Effluent Test Performance: Control Response and Minimum Detectable Differences From a Single Laboratory. 600/X-93/074, Contribution No. X188.
- Van Beneden, R.J., G.R. Gardner, N.J. Blake and D.J. Blair. 1993. Implications for the Presence of Transforming Genes in Gonadal Tumors in Two Bivalve Mollusk Species. Cancer Research 53: 2976-2979. 600/J-93/417, Contribution No. 1451.
- Weisberg, S.B., A.F. Holland, K.J. Scott, H.T. Wilson, S.C. Schimmel, J.B. Frithsen, J.F. Paul and J.K. Summers. 1993. Virginian Province Demonstration Report - EMAP-Estuaries: 1990. R.M. Valante, J. Gerritsen, R.W. Latimer. 620/R-93/006, Contribution No. 1376.
- Zarogian, G.E. and P.P. Yevich. 1993. Cytology and Biochemistry of Brown Cells In Cressostrea Virginica Collected At Clean and Contaminated Stations. Ref: Environmental Pollution 79:191-197. 600/J-93/313, Contribution No. 1274.
- Zarogian, G.E., P.P. Yevich and S.C. Anderson. 1993. Effects of Selected Inhibitors On Cadmium, Nickel, and Benzo(A)Pyrene Uptake Into Brown Cells of Mercenaria Mercenaria. Ref: Marine Environmental Research 35:41-45. 600/J-93/211, Contribution No. 1277.

1992

- Abdelrhman, M.A. and E.H. Dettmann. 1992. Modeling of Dredged Material Disposal In Deep Ocean Environments Near San Francisco: Model Intercomparison and Exploration of Modeling Issues. 600/X-92/121, Contribution No. 1431.
- Behrenfeld, M.J., J.T. Hardy and H. Lee II. 1992. Chronic Effects of Ultraviolet-B Radiation On the Growth and Cell Volume of *Phaeodactylum Tricornutum* (Bacillariophyceae). Ref: Journal of Phycology 28:757-760. 600/J-93/195, Contribution No. NX12.
- Bonner, J.S., C. Hunt, J.F. Paul and V.J. Bierman Jr. 1992. Transport of Low-Level Radioactive Soil At Deep-Ocean Disposal Site. Ref: Journal of Environmental Engineering 118(1):101-119. 600/J-93/189, Contribution No. 750.
- Burgess, R.M. and K.J. Scott. 1992. The Significance of In-Place Contaminated Marine Sediments On the Water Column: Processes and Effects. In: Sediment Toxicity Assessment, Lewis Publishers. 600/A-93/165, Contribution No. X187.
- Campbell, D.E., J.H. Garber, G. Gibson, H.P. Jeffries, G. Klein-Macphee, S.W. Nixon, C.A. Oviatt, M.E.Q. Pilson and S. Pratt. 1992. Workshop To Define the Biological Integrity of Narragansett Bay. T. Smayda and B. Welsh, University of Rhode Island Graduate School of Oceanography, Narragansett, RI. August 27, 1992, 107pp. 600/X-93/035, Contribution No. 1462.
- Carey, D.A., D.J. Keith, J. Schoenherr and P. Matthias. 1992. Construction of a Regional Relational/GIS Database In Support of Ocean Disposal Issues In Massachusetts Bay. In: Ocean 92: Mastering the Oceans Through Technology, Proceedings, Volume 1, October 26-29, 1992, Newport, Rhode Island. New York: Institute of Electrical and Electronics Engineers. pp. 207-212. 600/A-93/205, Contribution No. 1421.
- Dettmann, E.H., W.A. Brown, W.M. Warren, M.F. Fox and D.R. Kester. 1992. Final Report On Application of a Wasteload Allocation Model To Multiple Discharge Sources Into An Estuary. 600/X-92/026, Contribution No. 1381.
- Dewitt, T.H., R.J. Ozretich, R.C. Swartz, J.K.P. Jones, J.O. Lamberson, D.W. Schults, G.R. Ditsworth and L. Hoselton. 1992. The Influence of Organic Matter Quality On the Toxicity and Partitioning of Sediment-Associated Fluoranthene. L.M. Smith* Ref: Environmental Toxicology & Chemistry 11:187-208. 600/J-93/140, Contribution No. N126.
- Di Toro, D.M., J.D. Mahony, D.J. Hansen, K.J. Scott, A.R. Carlson and G.T. Ankley. 1992. Acid Volatile Sulfide Predicts the Acute Toxicity of Cadmium and Nickel In Sediments. Ref: Environmental Science & Technology 26(1):96-101. 600/J-93/272, Contribution No. 1173.
- Elskus, A.A., R.J. Pruell and J.J. Stegeman. 1992. Endogenously-Mediated, Pretranslational Suppression of Cytochrome P4501A In PCB-Contaminated Flounder. Marine Environmental Research 34:97-101. 600/J-94/002, Contribution No. 1322.
- Falkowski, P.G., R.M. Greene and R.J. Geider. 1992. Physiological Limitations On Phytoplankton Productivity In the Ocean. Ref: Oceanography 5(2):84-91. 600/J-93/209, Contribution No. X199.
- Ferraro, S.P. and F.A. Cole. 1992. Taxonomic Level Sufficient For Assessing a Moderate Impact On Macrobenthic Communities In Puget Sound, Washington, Usa. Ref: Canadian Journal of Fisheries & Aquatic Sciences 49(6):1184-1188. 600/J-93/138, Contribution No. N183.
- Gardner, G.R., R.J. Pruell and A.R. Malcolm. 1992. Chemical Induction of Tumors In Oysters By a Mixture of Aromatic and Chlorinated Hydrocarbons, Amines, and Metals. Ref: Marine Environmental Research 34:59-63. 600/J-93/310, Contribution No. 1281.
- Gentile, J.H. and M.A. Harwell. 1992. Report on the Ecological Risk Assessment Guidelines Strategic Planning Workshop. Risk Assessment Forum, U.S. EPA, Washington, D.C. EPA/630/R-92/002, Contribution No. 1634.
- Gentile, J.H. and M.W. Slimak. 1992. Endpoints and Indicators In Ecological Risk Assessments. Ecological Indicators, Vol. 2, 1992 Mackenzie, Hyatt, Macdonald (Eds). 600/A-93/284, Contribution No. 1278.
- Godshall, F.A. and H.A. Walker. 1992. Statistical Analyses of COADS Wind Data In Coastal Regions of the United States. International COADS Workshop, Boulder, Co, Jan. 13-15, 1992. 600/A-93/157, Contribution No. 1388.
- Greene, R.M., R.J. Geider, Z.S. Kolber and P.G. Falkowski. 1992. Iron-Induced Changes In Light Harvesting Photochemical Energy Conversion Processes In Eukaryotic Marine Algae. Ref: Plant Physiology 100: 565-575. 600/J-93/210, Contribution No. X200.
- Hinton, D.E., P.C. Baumann, G.R. Gardner, W.E. Hawkins, J.D. Hendricks and R.A. Murchelano. 1992. Histopathologic Biomarkers. In: Biomarkers, Biochemical, Physiological, and Histological Markers of Anthropogenic Stress. 600/A-93/193, Contribution No. 1357.
- Jaworski, N.A., P.M. Groffman, A.A. Keller and J.C. Prager. 1992. A Watershed Nitrogen and Phosphorus Balance: the Upper Potomac River Basin. Ref: Estuaries 15(1):83-95. 600/J-93/199, Contribution No. 1083.
- Juinio, M.A.R., J.S. Cobb, D.A. Bengtson and M.W. Johnson. 1992. Changes In Nucleic Acids Over the Molt Cycle In Relation To Food Availability and Temperature In *Homarus Americanus* Postlarvae. Ref: Marine Biology 114:1-10. 600/J-93/137, Contribution No. 1436.
- Keith, D.J., B. Capone, G.S. Cook, D.A. Carey, D.N. Wiley and J.P. Fish. 1992. Target Detection and Mapping of Aquatic Hazardous Waste Sites In Massachusetts Bay Utilizing Sidescan Sonar. In: Oceans 92: Mastering the Oceans Through Technology, Proceedings, Volume 1, October 26-29, 1992, Newport, Rhode Island. New York: Institute of Electrical and Electronics Engineers. pp. 497-501. 600/A-93/204, Contribution No. 1420.

Lake, J.L., R.J. Pruell and F.A. Osterman. 1992. Examination of Dechlorination Processes and Pathways In New Bedford Harbor Sediments. *Marine Environmental Research* 33:31-47. 600/J-94/001, Contribution No. 1121.

Lamberson, J.O., T.H. Dewitt and R.C. Swartz. 1992. Assessment of Sediment Toxicity To Marine Benthos. In: *Sediment Toxicity Assessment*, Lewis Publishers Chelsea, MI. 600/A-93/108, Contribution No. N175.

Miller, D.C. and S.L. Poucher. 1992. Report On Dissolved Oxygen Requirements of Saltwater Organisms and Implications For Criteria Derivation. 600/X-92/012, Contribution No. 1372.

Nacci, D.E., S.M. Nelson, W.G. Nelson and E.H. Jackim. 1992. Application of the DNA Alkaline Unwinding Assay To Detect DNA Strand Breaks In Marine Bivalves. Ref: *Marine Environmental Research* 33:83-100. 600/J-93/455, Contribution No. 1261.

Nebeker, A.V., S.T. Onjukka, D.G. Stevens, G.A. Chapman and S.E. Dominguez. 1992. Effects of Low Dissolved Oxygen On Survival, Growth, and Reproduction of *Daphnia*, *Hyallela* and *Gammarus*. Ref: *Environmental Toxicology & Chemistry* 11:373-379. 600/J-93/457, Contribution No. N148.

Paul, J.F., K.J. Scott, A.F. Holland, S.B. Weisberg, J.K. Summers and A. Robertson. 1992. The Estuarine Component of the U.S. EPA'S Environmental and Assessment Program. Ref: *Chemistry & Ecology* 7:93-116. 600/J-93/136, Contribution No. 1374.

Sanders, B.M., V.M. Pascoe, P.A. Nakagawa and L.S. Martin. 1992. Persistence of the Heat-Shock Response Over Time In a Common *Mytilus* Mussel. Ref: *Molecular Marine Biology & Biotechnology* 1(2):147- 154. 600/J-93/139, Contribution No. X192.

Schock, S.G., D.J. Keith, D.L. Debruin, E.H. Dettmann and G.A. Tracey. 1992. Utilizing a Chirp Sonar To Accurately Characterize Newly Deposited Material at the Calcasieu Ocean Dredged Material Disposal Site, Louisiana. In: *Oceans '92: Mastering Oceans Through Technology, Proceedings, Volume 1, October 26-29, 1992*, Newport, Rhode Island. New York: Institute of Electrical and Electronics Engineers. pp. 492-496. 600/A-93/206, Contribution No. 1423.

Schults, D.W., S.P. Ferraro, L.W. Smith, F.A. Roberts and C.K. Poindexter. 1992. A Comparison of Methods For Collecting Interstitial Water For Trace Organic Compounds and Metals Analyses. Ref: *Water Research* 1992 26(7):989-995. 600/J-93/196, Contribution No. N087.

Shugart, L., J. Bickham, E.H. Jackim, G. McMahon, W. Ridley, J. Stein and S. Steinert. 1992. DNA Alterations. In: *Biomarker-Biochemical, Physiological, & Histological Markers of Stress*, Lewis Publishers. 600/A-93/164, Contribution No. 1087.

Voyer, R.A. 1992. Observations On the Effect of Dissolved Oxygen and Temperature On Respiration Rates of the Bay Scallop, *Argopecten Irradians*. Ref: *Northeast Gulf Science* 12(2):147-150. 600/J-93/212, Contribution No. 1329.

Wolf, S., P. Vouros, C.B. Norwood and E.H. Jackim. 1992. Identification of Deoxynucleoside-Polyaromatic Hydrocarbon Adducts By Capillary Zone Electrophoresis-Continuous Flow-Fast Atom Bombardment Mass Spectrometry. Ref: *Journal of American Society For Mass Spectrometry* 3:757-761. 600/J-93/314, Contribution No. 1416.

Zarogian, G.E., S.C. Anderson and R.A. Voyer. 1992. Individual and Combined Cytotoxic Effects of Cadmium, Copper, and Nickel On Brown Cells of *Mercenaria Mercenaria*. Ref: *Ecotoxicology & Environmental Safety* 24:328-337. 600/J-93/308, Contribution No. 1340.

1991

Ankley, G.T., G.L. Phipps, E.N. Leonard, D.A. Benoit, V.R. Mattson, P.A. Kosian, A.M. Cotter, J.R. Dierkes, D.J. Hansen and J.D. Mahony. 1991. Acid-Volatile Sulfide as a Factor Mediating Cadmium and Nickel Bioavailability in Contaminated Sediments. *Environmental Toxicology and Chemistry* 10: 1299-1307. 600/J-91/291, Contribution No. 1227.

Bokuniewicz, H., L. Mctiernan and W.R. Davis. 1991. Measurement of Sediment Resuspension Rates In Long Island Sound. Ref: *Geo-Marine Letters* 11:159-161. 600/J-93/273, Contribution No. 1507.

Chapman, J.W. and J.T. Carlton. 1991. A Test of Criteria For Introduced Species: the Global Invasion By the Isopod *Synidotea Laevidorsalis* (Miers, 1881). Ref: *Journal of Crustacean Biology* 11(3):386-400. 600/J-91/232, Contribution No. NX11.

Collins, G.B., D.A. Bengtson and J.C. Moore. 1991. Characterization of Reference *Artemia* Iii For Toxicological Studies. Ref: *Aquatic Toxicology & Risk Assessment* 14:315-323. 600/J-93/253, Contribution No. X198.

Di Toro, D.M., C. Zarba, D.J. Hansen, W.J. Berry, R.C. Swartz, C. Cowan, S. Pavlou, H.E. Allen, N.A. Thomas and P.A. Paquin. 1991. Technical Basis For Establishing Sediment Quality Criteria For Nonionic Organic Chemicals Using Equilibrium Partitioning. *Environmental Toxicology & Chemistry* 10:1541-1583 600/J-91/327, Contribution No. 1126.

Ferraro, S.P., H. Lee II, L.M. Smith, R.J. Ozretich and D.T. Specht. 1991. Accumulation Factors For Eleven Polychlorinated Biphenyl Congeners. Ref: *Environmental Contamination & Toxicology* 46:276-283. 600/J-91/028, Contribution No. N107.

Ferraro, S.P., F.A. Cole and D.W. Schults. 1991. Temporal Changes In the Benthos Along a Pollution Gradient: Discriminating the Effects of Natural Phenomena From Sewage-Industrial Wastewater Effects. Ref: *Estuarine, Coastal & Shelf Science* 33:383-407. 600/J-93/084, Contribution No. N143.

Frick, W.E., C.G. Fox and D.J. Baumgartner. 1991. Plume Definition In Regions of Strong Bending. In: *Environmental Hydraulic*, A.A. Balkema Publishers. 600/A-93/166, Contribution No. N191.

- Fujimura, R., B. Finlayson and G. Chapman. 1991. Evaluation of Acute and Chronic Toxicity Tests With Larval Striped Bass. Ref: Aquatic Toxicology & Risk Assessment 14:193-211. 600/J-93/456, Contribution No. N129.
- Gable, F.J., D.G. Aubrey and J.H. Gentile. 1991. Global Environmental Change Issues in the Western Indian Ocean Region. Geoforum 22(4):401-419. 600/J-93/312, Contribution No. 1214.
- Gardner, G.R., P.P. Yevich, J. Hurst, P. Thayer, S.J. Benyi, J.C. Harshbarger and R.J. Pruell. 1991. Germinomas and Teratoid Siphon Anomalies In Soft-Shell Clams, Mya Arenaria, Environmentally Exposed To Herbicides. Ref: Environmental Health Perspectives 9:43-51. 600/J-91/079, Contribution No. 949.
- Gardner, G.R. 1991. Field and Laboratory Studies of Chemical Contamination and Environmentally Related Diseases In Fish and Molluscs of New England. In: Pathobiology of the Eye and Ear: Forty-Third Annual Meeting of the American College of Veterinary Pathologists, Twenty-Seventh Annual Meeting of the American Society for Veterinary Clinical Pathology in Conjunction with the Twenty-Third Annual Meeting of the American College of Veterinary Ophthalmologists, November 15-21, 1992, San Diego, California. pp. 163-169. 600/A-93/120, Contribution No. 1408.
- Gardner, G.R., P.P. Yevich, J.C. Harshbarger and A.R. Malcolm. 1991. Carcinogenicity of Black Rock Harbor Sediment To the Eastern Oyster and Trophic Transfer of Black Rock Harbor Carcinogens From the Blue Mussel To the Winter. Ref: Environmental Health Perspectives 90:53-66. 600/J-91/080, Contribution No. 978.
- Gentile, J.H., W.H. van der Schalie and W.P. Wood. 1991. Summary Report on Issues in Ecological Risk Assessment. U.S. Environmental Protection Agency, Washington, D.C. EPA/625/3-91/018, Contribution No. 1635.
- Godshall, F.A., H.A. Walker and G. Mapp. 1991. Assessment of Responses To Climate Variation In the Marine Environment of Coastal Regions of the United States. 600/X-91/004, Contribution No. 1233.
- Hansen, D.J. and G.M. Cripe. 1991. Interlaboratory Comparison of the Early Life-Stage Toxicity Test Using Sheepshead Minnows (*Cyprinodon variegatus*). Aquatic Toxicology and Risk Assessment: Fourteenth Volume, ASTM STP 1124. M.A. Mayes and M.G. Barron, eds., American Society for Testing and Materials, Philadelphia. pp. 354-375. Contribution No. 1153.
- Hansen, D.J., W.J. Berry, D.M. Di Toro, P. Paquin, L. Davanzo, F.E. Stancil Jr. and H.P. Kollig. 1991. Proposed Sediment Quality Criteria For the Protection of Benthic Organisms: Endrin. 600/X-91/166, Contribution No. 1284.
- Hansen, D.J., W.J. Berry, D.M. Di Toro, P. Paquin, L. Davanzo, F.E. Stancil Jr. and H.P. Kollig. 1991. Sediment Quality Criteria For the Protection of Benthic Organisms: Acenaphthene. 600/X-91/151, Contribution No. 1352.
- Kreeger, K.E., D.A. Kreeger, C.J. Landon and R.R. Lowry. 1991. The Nutritional Value of Artemia and Tigriopus Californicus (Baker) For Two Pacific Mysid Species, *Metamysidopsis Elongate* (Holmes) and *Mysidopsis Intii*. Ref: J. Exp. Mar. Biol. Ecol. 148:147-158. 600/J-91/231, Contribution No. NX20.
- Kuehl, D.W., R.J. Haebler and C. Potter. 1991. Chemical Residues In Dolphins From the U.S. Atlantic Coast Including Atlantic Bottlenose Obtained During the 1987/88 Mass Mortality. Chemosphere 22(11):1071-1084, 1991 600/J-94/485, Contribution No. 1270.
- Kuhn, A., D.A. Bengtson and K.L. Simpson. 1991. Increased Reproduction By Mysids (*Mysidopsis Bahia*) Fed With Enriched Artemia Spp. Nauplii. Ref: American Fisheries Society Symposium 9:192-199. 600/J-91/234, Contribution No. X136.
- Lake, J.L., R.J. Pruell and F.A. Osterman. 1991. Dechlorination of Polychlorinated Biphenyls In Sediments of New Bedford Harbor. In: Organic Substances & Sediments In Water, Vol. 3, Chap. 11, pp. 173-197. 600/D-91/249, Contribution No. 1099.
- Lake, J.L. 1991. Dechlorinations of PCBs in New Bedford Harbor Sediments. U.S. EPA. Environmental Research Laboratory-Narragansett. Marine Research News. Contribution No. 1247.
- Lee II, H., B.L. Boese, J. Pelletier, M.H. Winsor, D.T. Specht and R.C. Randall. 1991. Guidance Manual: Bedded Sediment Bioaccumulation Tests. 600/X-91/148, Contribution No. N195.
- Lee II, H. and C.A. Bodeen. 1991. United Heckathorn Superfund Site Study. 600/X-91/121, Contribution No. N199.
- Lee II, H., M.H. Winsor, J. Pelletier, R.C. Randall, J. Bertling and B. Coleman. 1991. Computerized Risk and Bioaccumulation System - Version 1.0. 600/3-91/069, Contribution No. N196.
- Lussier, S.M., A. Kuhn, M.J. Chammass and J.E. Sewall. 1991. Life-History and Toxicological Comparisons of Temperate and Subtropical Mysids. Ref: American Fisheries Society Symposium 9:169-181. 600/J-91/292, Contribution No. 916.
- Melzian, B.D. 1991. Toxicity Assessment of Dredged Materials: Acute and Chronic Toxicity As Determined By Bioassays and Bioaccumulation Tests. Proceedings of the International Seminar of the Environmental Aspects of Dredging Activities, Nantes, France. 600/D-91/066, Contribution No. 1123.
- Melzian, B.D. and N.A. Jaworski. 1991. Toxicity of Chlorine and Ammonia To Aquatic Life: Chemistry, Water Quality Criteria, Recent Research and Recommended Future Research. Water Quality Standards For the 21st Century, December 10- 12, 1991, Arlington, VA. 600/D-91/234, Contribution No. 1262.
- Mills, L.J., D.L. Robson and A.R. Malcolm. 1991. Interactive Effects of Aldrin, Cyclohexylamine, 2,4- Diaminotoluene and Two Phorbol Esters On Metabolic Cooperation Between V79 Cells. Ref: Carcinogenesis 12(7):1293-1299. 600/J-91/233, Contribution No. 1217.

- Monosson, E. and J.J. Stegeman. 1991. Cytochrome P450e (P450ia) Induction and Inhibition In Winter Flounder By 3,3',4,4'-Tetrachlorobiphenyl: Comparison of Response In Fish From Georges Bank And. Ref: Environmental Toxicology & Chemistry 10:765-774. 600/J-93/200, Contribution No. X162.
- Mueller, C., S.C. Anderson and G.G. Pesch. 1991. Genotoxic Effects of Complex Marine Sediment Extracts On V79 Chinese Hamster Lung Fibroblasts. Ref: Environmental Toxicology & Chemistry 10:1149-1153. 600/J-91/274, Contribution No. 1244.
- Munns, W.R., Jr., C. Mueller, D.J. Cobb, T.R. Gleason, G.G. Pesch and R.K. Johnston. 1991. Marine Ecological Risk Assessment at Naval Construction Battalion Center, Davisville, Rhode Island Phase I. San Diego, CA: Naval Ocean Systems Center. Technical Report 1437. Contribution No. 1124.
- Nacci, D.E., P. Comeleo, E.A. Petrocelli, A. Kuhn-Hines, G. Modica and G. Morrison. 1991. Performance Evaluation of Sperm Cell Toxicity Test Using the Sea Urchin, *Arbacia punctulata*. Aquatic Toxicology and Risk Assessment: Fourteenth Volume, ASTM STP 1124, M.A. Mayes and M.G. Barron, eds., American Society for Testing and Materials, Philadelphia, pp. 324-336. Contribution No. 1128.
- Nelson, W.G. and D.J. Hansen. 1991. Development and Use of Site-Specific Chemical and Biological Criteria For Assessing New Bedford Harbor Pilot Dredging Project. Ref: Environmental Management 15(1):105-112. 600/J-91/029, Contribution No. 1090.
- Nelson, W.G. 1991. Summary of the Technical Assistance Provided By ERLN In Support of Superfund Activities (FY 91). 600/X-91/159, Contribution No. 1365.
- Perez, K.T., E.W. Davey, A.E. Soper, D.L. Winslow, P.G. Murphy, G.E. Morrison, N.F. Lackie and R.J. Blasco. 1991. Influence of Size On Fate and Ecological Effects of Kepone In Physical Models. Johnson, J.F. Heltshel Ref: Ecological Applications 1(3):237-248. 600/J-91/275, Contribution No. 784A.
- Pesch, C.E., W.R. Munns Jr. and R.E. Gutjahr-Gobell. 1991. Effects of a Contaminated Sediment On Life History Traits and Population Growth Rate of Neanthes Arenaceo-Dentata (Polychaeta: Nereidae) In the Laboratory. 600/J-91/236, Contribution No. 1084.
- Randall, R.C., H. Lee II, R.J. Ozretich, J.L. Lake and R.J. Pruell. 1991. Evaluation of Selected Lipid Methods For Normalizing Pollutant Bioaccumulation. Ref: Environmental Toxicology & Chemistry 10:1431-1436. 600/J-91/299, Contribution No. 1186.
- Sanders, B.M., L.S. Martin, W.G. Nelson, D.K. Phelps and W. Welsh. 1991. Relationships Between Accumulation of a 60KDA Stress Protein and Scope-For-Growth In *Mytilus Edulis* Exposed To a Range of Copper Concentrations. Ref: Marine Environmental Research 31:81-97. 600/J-93/315, Contribution No. 1150.
- Swartz, R.C., D.W. Schults, J.O. Lamberson, R.J. Ozretich and J.K. Stull. 1991. Vertical Profiles of Toxicity, Organic Carbon, and Chemical Contaminants In Sediment Cores From the Palos Verdes Shelf and Santa Monica Bay, California. Ref: Marine Environmental Research 31:215-225. 600/J-93/083, Contribution No. N139.
- Tracey, G.A., D.J. Cobb, D.J. Keith, N.I. Rubinstein, B.K. Taplin, W.J. Berry and W.S. Boothman. 1991. Dredged Material Assessment Methods: Evaluation of the Revised Implementation Manual For S.103 of the Marine Protection, Research and Sanctuaries Act. 600/X-91/009, Contribution No. 1234.
- Tracey, G.A., C. James, G. Hatcher and W.G. Nelson. 1991. Development and Validation of Methods for Real-Time Measurement of Pollutant Transport from an Urbanized Estuary. Proceedings of the Institute of Electrical and Electronics Engineers, October 1-3, 1993, Honolulu, Hawaii. 600/A-93/212, Contribution No. 1326.
- Voyer, R.A. and D.G. McGovern. 1991. Influence On Constant and Fluctuating Salinity On Responses of *Mysidopsis Bahia* Exposed To Cadmium In a Life-Cycle Test. Ref: Aquatic Toxicology 19:215-230. 600/J-91/235, Contribution No. 1190.
- Young, D.R., A.J. Mearns and R.W. Gossett. 1991. Bioaccumulation of P,P'-Dde and PCB 1254 By a Flatfish Bioindicator From High Contaminated Marine Sediments of Southern California. In: Organic Substances & Sediments In Water-Biological Lewis Publishers. 600/A-93/163, Contribution No. N144.
- Young, D.R. and C.A. Bodeen. 1991. Los Angeles River Loadings of Trace Metals and Synthetic Organics. 600/X-91/030, Contribution No. N159.
- 1990
- Baksi, S.M. 1990. A Fish Hepatocyte Model for Investigation of the Effects of Trihalomethanes. In: Water Chlorination: Chemistry, Environmental Impact and Health Effects, Volume 6. Proceedings of the Sixth Conference on Water Chlorination: Environmental Impact and Health Effects, May 3-8, 1987, Oak Ridge, Tennessee. Chelsea, Michigan: Lewis Publishers, 1990. pp. 341-346. 600/D-90/185, Contribution No. P08.
- Baksi, S.M. and M.J. Frazier. 1990. Isolated Fish Hepatocytes-Model Systems For Toxicology Research. Ref: Aquatic Toxicology 16:229-256. 600/J-90/115, Contribution No. 971.
- Baumgartner, D.J. and I.W. Duedall. 1990. Marine Processes, Their Relationship To Pollution, and a Framework For Waste Management. In: Oceanic Processes In Marine Pollution, Physical & Chem Processes: Transport & Transformation, pp. 3-11. 600/D-90/187, Contribution No. N067.
- Boese, B.L., M.H. Winsor, H. Lee II, D.T. Specht and K.C. Rukavina. 1990. Depuration Kinetics of Hexachlorobenzene In the Clam, *Macoma Nasuta*. Ref: Comp. Biochem. Physiol 96c(2):327-331. 600/J-90/436, Contribution No. N081.
- Boese, B.L., H. Lee II, D.T. Specht, R.C. Randall and M.H. Winsor. 1990. Comparison of Aqueous and Solid-Phase Uptake For Hexachlorobenzene In the Tellinid Clam *Macoma Nasuta* (Conrad): a Mass Balance Approach. Ref: Environmental Toxicology & Chemistry 9:221-231. 600/J-90/071, Contribution No. N053.
- Cobb, D.J., S. Fluck and J.L. Lake. 1990. Chemical Monitoring of the World Prodigy Oil Spill. pp. 313 - 324 IN: Oil Spills: Management and Legislative Implications. Proceedings of the Conference, Newport, RI May 15-18, 1990. Edited by Malcolm L. Spaulding and Mark Reed. Contribution No. 1152.

Davey, E.W., K.T. Perez, A.E. Soper, N.F. Lackie, G.E. Morrison, R.L. Johnson and J.F. Heltshe. 1990. Significance of the Surface Microlayer To the Environmental Fate of Di(2-Ethylhexyl) Phthalate Predicted From Marine Microcosms. Ref: *Marine Chemistry* 31:231-269. 600/J-90/468, Contribution No. 942.

Deben, W.A., W.D. Clothier, G.R. Ditsworth and D.J. Baumgartner. 1990. Spatio-Temporal Fluctuations In the Distribution and Abundance of Demersal Fish and Epibenthic Crustaceans In Yaquina Bay. Ref: *Estuaries* 13(4):469-478. 600/J-90/467, Contribution No. N043.

Dettmann, E.H., F.A. Godshall and W.A. Brown. 1990. Dissolved Oxygen Modeling in the Providence River, Narragansett Bay, Rhode Island: Evaluation of the Available Data Base, and Initial Modeling Results. Submitted to the Narragansett Bay Project, April 1990 Contribution No. 1122.

Di Toro, D.M., J.D. Mahony, D.J. Hansen, K.J. Scott, M.B. Hicks, S.M. Mayr and M.S. Redmond. 1990. Toxicity of Cadmium in Sediments: The Role of Acid Volatile Sulfide. *Environmental Toxicology and Chemistry* 9:1487-1502. Contribution No. 1079.

Ditsworth, G.R., D.W. Schults and J.K.P. Jones. 1990. Preparation of Benthic Substrates For Sediment Toxicity Testing. Ref: *Environmental Toxicology and Chemistry*, 9:1523-1529. 600/J-90/398, Contribution No. N077.

Ferraro, S.P., H. Lee II, R.J. Ozretich and D.T. Specht. 1990. Predicting Bioaccumulation Potential: a Test of a Fugacity-Based Model. Ref: *Archives of Environmental Contamination & Toxicology* 19:386-394. 600/J-90/113, Contribution No. N071.

Ferraro, S.P. and F.A. Cole. 1990. Taxonomic Level and Sample Size Sufficient For Assessing Pollution Impacts On the Southern California Bight Macrobenthos. Ref: *Marine Ecology Progress Series* 67:251-162. 600/J-90/437, Contribution No. N124.

Ferraro, S.P. and F.A. Cole. 1990. Taxonomic Level Sufficient For Assessing Pollution Impacts On the Southern California Bight Macrobenthos. 600/X-90/051, Contribution No. N123.

Gable, F.J., J.H. Gentile and D.G. Aubrey. 1990. Global Climatic Issues in the Coastal Wider Caribbean Region. *Environmental Conservation* 17(1):51-60. 600/J-90/245, Contribution No. 1210.

Gardner, G.R., R.J. Pruell and L.C. Folmar. 1990. A Comparison of Both Neoplastic and Non-Neoplastic Disorders In Winter Flounder (*Pseudopleuronectes Americanus*) From Eight Areas In New England. Ref: *Marine Environmental Research* 28:393-397. 600/J-90/074, Contribution No. 1034.

Gentile, J.H., G.G. Pesch, K.J. Scott, W.G. Nelson, W.R. Munns Jr. and J.M. Capuzzo. 1990. Bioassessment Methods For Determining the Hazards of Dredged Material Disposal In the Marine Environment. Book Chapter - In *Situ Evaluations of Biological Hazards of Environmental Pollutants*, pp. 31-47. 600/D-91/023, Contribution No. 1209.

Gleason, T.R. and C. Recksiek. 1990. Preliminary Field Verification of Daily Growth Increments In the Lapillar Otoliths of Juvenile Cunners. Ref: *American Fisheries Society Symposium* 7:562-565. 600/J-90/466, Contribution No. X181.

Groffman, P.M. and N.A. Jaworski. 1990. Watershed Nitrogen Management "Upper Potomac River Basin Case Study". In: *1990 Chesapeake Research Conference, New Perspectives in the Chesapeake System: A Research and Management Partnership, Proceedings of a Conference, December 4-6, 1990, Baltimore, Maryland*. pp. 47-59. 600/D-91/233, Contribution No. 1255.

Hansen, D.J. 1990. Water Quality Criteria Document For Compounds Identified For Fiscal Year 90. 600/X-90/271, Contribution No. 1202.

Holland, A.F., J.B. Frithsen, J.F. Paul, J.S. Rosen, S.C. Schimmel, K.J. Scott, C.J. Strobel and J.K. Summers. 1990. Near Coastal Program Plan For 1990: *Estuaries*. S. Weisberg, R. Valente. 600/4-90/033, Contribution No. 1231.

Jackim, E.H., G.G. Pesch, A.R. Malcolm and G.R. Gardner. 1990. Application of Biomarkers To Predict Responses of Organisms Exposed To Contaminated Marine Sediments. Ref: *Advances In Applied Biotechnology Series*, 5:165-174. 600/J-90/114, Contribution No. 870.

Jackim, E.H. and C.B. Norwood. 1990. Separation and Detection of a Benzo(A)Pyrene Deoxyguanosyl-5-Monophosphate Adduct By Capillary Zone Electrophoresis. Ref: *Journal of High Resolution Chromatography* 13:195-196 600/J-90/075, Contribution No. 1098.

Jaworski, N.A. 1990. Retrospective Study of the Water Quality Issues of the Upper Potomac Estuary. Ref: *Aquatic Sciences* 3(1):11-40. 600/J-90/399, Contribution No. P2.

Jaworski, N.A., C.A. Oviatt and J.C. Prager. 1990. A Plan For Research On the Role of Atmospheric Nitrogen and Toxic Pollutants In Coastal Waters. 600/X-90/158, Contribution No. 1131.

Jaworski, N.A. and L.C. Linker. 1990. Uncertainties In Nitrogen Mass Loadings In Coastal Watersheds. *New Perspectives In Chesapeake System: a Research and Management Partnership*, 12/4-6/90, Baltimore, MD. 600/D-91/232, Contribution No. 1344.

Lake, J.L., N.I. Rubinstein, H. Lee II, C.A. Lake, J.F. Heltshe and S. Pavignano. 1990. Equilibrium Partitioning and Bioaccumulation of Sediment-Associated Contaminants By Infaunal Organisms. Ref: *Environmental Toxicology & Chemistry* 9:1095-1106. 600/J-90/243, Contribution No. 1030.

Langdon, C.J., W.K. Seim, R.L. Hoffman and L. Weber. 1990. Development of Protocols For Chronic Toxicity Testing of Pacific Marine Species. 600/9-90/014, Contribution No. NX09.

Latimer, J.S. and J.G. Quinn. 1990. A Comparison of Extraction Methods For the Isolation of Lipids and PCBs From Mussel Homogenate. 600/3-90/092, Contribution No. X175.

- Lee II, H., J.W. Chapman, C.B. Daniels and J.C. Mens. 1990. A Review of the Effects of Ultraviolet-B Radiation On the Marine Fish. 600/X-90/367, Contribution No. N154.
- Lee II, H., B.L. Boese, R.C. Randall and J. Pelletier. 1990. A Method For Determining Gut Uptake Efficiencies of Hydrophobic Pollutants In a Deposit-Feeding Clam. Ref: Environmental Toxicology & Chemistry 9:215-219. 600/J-90/073, Contribution No. N073.
- Lee II, H., M.H. Winsor, J. Pelletier, R.C. Randall, J. Bertling and B. Coleman. 1990. Computerized Risk and Bioaccumulation System. 600/X-90/214, Contribution No. N137.
- Malcolm, A.R. 1990. Research Plan For Coastal Water Biomarker Assessment Methods. 600/X-90/216, Contribution No. 1180.
- Malcolm, A.R. 1990. Application of Biomarkers and Selected In Vitro Assays For Characterizing Sediments At Aquatic Superfund Sites. 600/X-90/270, Contribution No. 1201.
- Miller, D.C., S.L. Poucher, J.A. Cardin and D.J. Hansen. 1990. The Acute and Chronic Toxicity of Ammonia To Marine Fish and a Mysid. Ref: Archives of Environmental Contamination & Toxicol, 19:40-48. 600/J-90/011, Contribution No. 893.
- Morrison, G.E. and G. Chapman. 1990. Supplemental Methods and Status Reports For Short-Term Saltwater Toxicity Tests. 600/X-90/269, Contribution No. 1199.
- Nelson, W.G. 1990. An Application of Real-Time Monitoring In Decision Making: the New Bedford Harbor Pilot Dredging Project. 17th Annual Aquatic Toxicity Workshop, 11/5-7/90, Vancouver, BC 600/A-94/002, Contribution No. 1197.
- Nelson, W.G. 1990. Use of the Blue Mussell, *Mytilus Edulis*, In Water Quality Toxicity Testing and In Situ Marine Biological Monitoring. Ref: Aquatic Toxicology & Risk Assessment 13:167-175, 600/J-90/333, Contribution No. 1022.
- Newman, K.A., S.A. Frankel and K.D. Stolzenbach. 1990. Flow Cytometric Detection and Sizing of Fluorescent Particles Deposited At a Sewage Outfall Site. Ref: Environmental Science & Technology 24(4):513-519, 600/J-90/269, Contribution No. NX06.
- Newman, K.A., F.M. Morel and K.D. Stolzenbach. 1990. Settling and Coagulation Characteristics of Fluorescent Particles Determined By Flow Cytometry and Fluorometry. Ref: Environmental Science & Technology 24(4):506-513, 600/J-90/268, Contribution No. NX05.
- Ozretich, R.J. and D.J. Baumgartner. 1990. The Utility of Buoyant Plume Models In Predicting the Initial Dilution of Drilling Fluids. In: Oceanic Processes In Marine Pollution, Physical & Chem Processes: Transport and Transformatin, pp. 151-168. 600/D-90/186, Contribution No. N027.
- Paul, J.F., A.F. Holland, S.C. Schimmel, J.K. Summers and K.J. Scott. 1990. U.S. Environmental Protection Agency's Environmental Monitoring and Assessment Program, an Ecological Status and Trends Program. U.S. Dept. of the Interior, National Programs Biological Report 90(18): 71-78. 600/J-90/548, Contribution No. 1347.
- Paul, J.F., A.F. Holland, J.K. Summers, S.C. Schimmel and K.J. Scott. 1990. EPA's Environmental Monitoring and Assessment Program: An Ecological Status and Trends Program. Proceedings of 17th Annual Aquatic Toxicology Workshop, 11/5-7/90, Vancouver, BC. 600/D-91/250, Contribution No. 1349.
- Paul, J.F., A.F. Holland, J.K. Summers, S.C. Schimmel and K.J. Scott. 1990. EPA's Environmental Monitoring and Assessment Program: An Ecological Status and Trends Program. 17th Annual Aquatic Toxicity Workshop, 11/5-7/90, Vancouver, BC 600/A-94/003, Contribution No. 1346.
- Paul, J.F., S.C. Schimmel, J.K. Summers, T.P. O'Conner and D.J. Basta. 1990. Environmental Monitoring and Assessment Program (EMAP) Near Coastal Component. U.S. Environmental Protection Agency and National Oceanic and Atmospheric Administration, December 1990. Contribution No. 1410.
- Paul, J.F. and A.F. Holland. 1990. Environmental Monitoring and Assessment Program (EMAP) Near Coastal Program Plan For 1990. 600/X-90/272, Contribution No. 1203.
- Perez, K.T. and E.W. Davey. 1990. Experimental Marine Microcosm Test Protocol and Support Document. 600/9-90/002, Contribution No. 1104.
- Pesch, G.G. 1990. Sister Chromatid Exchange and Genotoxicity Measurements Using Polychaete Worms. Ref: Aquatic Sciences 2(1):19-25. 600/J-90/013, Contribution No. 921.
- Phelps, D.K., D.J. Hansen, K.J. Scott and A. Fowler. 1990. Monitoring Program In Support of the Pilot Study of Dredging and Dredged Material Disposal Methods, New Bedfor, Massachusetts Superfund Site. 600/D-90/002, Contribution No. 977.
- Pruell, R.J., C.B. Norwood, R.D. Bowen, W.S. Boothman, P.F. Rogerson, M. Hackett and B.C. Butterworth. 1990. Geochemical Study of Sediment Contamination In New Bedford Harbor, Massachusetts. Ref: Marine Environmental Research 29:77-101. 600/J-90/242, Contribution No. 972.
- Pruell, R.J., N.I. Rubinstein, B.K. Taplin, J.A. Livolsi and C.B. Norwood. 1990. 2,3,7,8-Tcdd, 2,3,7,8-Tcdf and PCB's In Marine Sediments and Biota: Laboratory and Field Studies. 600/8-90/068, Contribution No. 1134.
- Rosen, J.S., J. Beaulieu, M.M. Hughes, H.W. Buffum, J.L. Copeland, R.M. Valente, J.F. Paul, J. Parker and A.F. Holland. 1990. Data Management System For Near-Coastal Demonstration Project. S. Schimmel, C. Stroeble, K. Summers*, K. Scott. 600/X-90/207, Contribution No. 1179.
- Rubinstein, N.I., R.J. Pruell, B.K. Taplin, J.A. Livolsi and C.B. Norwood. 1990. Bioavailability of 2,3,7,8-TCDD, 2,3,7,8-TCDF and PCBs To Marine Benthos From Passaic River Sediments. Ref: Chemosphere 20:1097-1102. 600/J-90/244, Contribution No. 1116.

Russell, A., L.J. Mills and D.L. Robson. 1990. In Vitro Studies of Chemical Effects On Gap- Junctional Communication: Role of Biotransformation In Toxicant Detection and Use of Assays In Risk Assessment. Ref: In Vitro Toxicology 3:61-67. 600/J-90/024, Contribution No. 981.

Sanders, B.M. 1990. Stress Proteins: Potential As Multitiered Biomarkers. In: Biomarkers of Environmental Contamination 9:165-190. 600/D-90/222, Contribution No. X177.

Schimmel, S.C. 1990. Implementation Plan For the Environmental Monitoring and Assessment Program Near Coastal Demonstration Project. 600/X-90/215, Contribution No. 1178.

Schimmel, S.C., G.B. Thursby, M.A. Heber and M.J. Chammas. 1990. Case Study of a Marine Discharge Comparison of Effluent and Receiving Water Toxicity. Ref: American Society For Testing & Mater Special Tech Pub #1007. 600/D-90/005, Contribution No. 844.

Scott, K.J., W.J. Berry, D.J. Cobb, D.J. Keith, G.A. Tracey and N.I. Rubinstein. 1990. The Application of the Amphipod Ten-Day Toxicity Test For Dredged Material Evaluations. 600/X-90/220, Contribution No. 1181.

Smith, L.M., T.R. Schwartz, K.F. Fletz and T.J. Kubiak. 1990. Determination and Occurrence of AHH-Active Polychlorinated Biphenyls, 2,3,7,8-Tetrachloro-P-Dioxin and 2,3,7,8-Tetrachlorodibenzofuran In Lake Michigan Sediment. Ref: Chemosphere 21(9):1063-1085. 600/J-90/546, Contribution No. N095.

Summers, J.K., A.F. Holland and J.F. Paul. 1990. Sampling Design For the EMAP Near-Coastal Project: Interim Report. 600/X-90/108, Contribution No. 1149.

Swartz, R.C. 1990. Contaminated Marine Sediments - Assessment and Remediation. Committee On Contaminated Marine Sediments, Marine Board, Committee On Engineering & Technical Systems, Wash, DC. 600/D-90/188, Contribution No. N068.

Swartz, R.C., D.W. Schults, T.H. Dewitt, G.R. Ditsworth and J.O. Lamberson. 1990. Toxicity of Fluoranthene In Sediment To Marine Amphipods: a Test of the Equilibrium Partitioning Approach To Sediment Quality Criteria. Ref: Environmental Toxicology & Chemistry 9:1071-1080. 600/J-90/241, Contribution No. N086.

Thursby, G.B., R.L. Steele, M. Tagliabue and C. Sheehan. 1990. Sexual Reproduction in Species of the Brown Seaweed, Fucus, to Assess Damage and Recovery from the World Prodigy Oil Spill. pp. 291 - 301 IN: Oil Spills: Management and Legislative Implications Proceedings of the Conference, Newport, RI May 15-18, 1990. Edited by Malcolm L. Spaulding and Mark Reed Contribution No. 1143.

Tracey, G.A., R.L. Steele, J. Gatzke, D.K. Phelps, R. Nuzzi, M. Waters and D.M. Anderson. 1990. Testing and Application of Biomonitoring Methods For Assessing Environmental Effects of Noxious Algal Blooms. Coastal & Estuarine Studies: Novel Phytoplankton Blooms pp. 557-574. 600/D-90/066, Contribution No. 985.

Voyer, R.A. and G. Modica. 1990. Influence of Salinity and Temperature On Acute Toxicity of Cadmium to Mysidopsis Bahía Molenock. Ref: Archives of Environmental Contamination & Toxicol. 19:124-131 600/J-90/012, Contribution No. 950.

Walker, H.A., J.F. Paul and V.J. Bierman Jr. 1990. A Convective-Dispersive Transport Model For Wastes Disposed At the 106-Mile Ocean Disposal Site. In: Oceanic Processes In Marine Pollution, Physical & Chem Processes: Transport & Transformation, pp. 53-61. 600/D-90/189, Contribution No. 662.

Walker, H.A., F.A. Godshall and J.P. Downing. 1990. Global Change and Coastal Ocean Physics: Approaches for Assessing Ecosystem Responses. Report on a Workshop Convened at The Mitchell Campus of Texas A&M University, Galveston, TX January 8-9, 1990 Contribution No. 1325.

Weinberg, J.R., V.R. Starczak, C. Mueller, G.G. Pesch and S.M. Lindsay. 1990. Divergence Between Populations of a Monogamous Ploychaete With Male Parental Care: Premating Isolation and Chromosome Variation. Ref: Marine Biology 107(2):205-213. 600/J-90/518, Contribution No. 1308.

Winsor, M.H., B.L. Boese, H. Lee II, R.C. Randall and D.T. Specht. 1990. Determination of the Ventilation Rates of Interstitial and Overlying Water By the Clam Macoma Nasuta. Ref: Environmental Toxicology & Chemistry 9:209-213. 600/J-90/072, Contribution No. N072.

Young, D.R., D.J. Baumgartner, S. Snedaker and L. Udey. 1990. Effects of Wastewater Treatment and Seawater Dilution In Reducing Lethal Toxicity of Municipal Wastewater To Sheepshead Minnow (Cyprinodon Variegatus). M. Brown, E. Corcoran Ref: Research J. of the Water Poll. Cntrl Fed. 62:763-770. 600/J-90/332, Contribution No. N070.