

## Ecosystem Services Research Program Publications January 2005-March 2007

### Journal Articles

1. *SeaWiFS retrieval of chlorophyll in Chesapeake Bay and the mid-Atlantic bight.* ESTUARINE, COASTAL AND SHELF SCIENCE, 2005. **62**(1-2): p. 75-94.
2. Acker, J.G., et al., *Remotely-sensed chl a at the Chesapeake Bay mouth is correlated with annual freshwater flow to Chesapeake Bay.* GEOPHYSICAL RESEARCH LETTERS, 2005. **32**: p. L05601.
3. Al-Saadi, J., et al., *Improving National Air Quality Forecasts with Satellite Aerosol Observations.* Bulletin of the American Meteorological Society, 2005. **86**(9): p. 1249-1261.
4. Amato, A.D., et al., *Regional energy demand responses to climate change: methodology and application to the Commonwealth of Massachusetts.* Climatic Change, 2005. **71**(1): p. 175-201.
5. Arey, J.S. and P.M. Gschwend, *Estimating partition coefficients for fuel-water systems: Developing linear solvation energy relationships using linear solvent strength theory to handle mixtures.* ENVIRONMENTAL SCIENCE & TECHNOLOGY, 2005. **39**(8): p. 2702-2710.
6. Arey, J.S. and P.M. Gschwend, *A physical-chemical screening model for anticipating widespread contamination of community water supply wells by gasoline constituents.* JOURNAL OF CONTAMINANT HYDROLOGY, 2005. **76**(1-2): p. 109-138.
7. Bastianoni, S., et al., *The solar transformity of oil and petroleum natural gas.* Ecological Modelling, 2005. **186**(2): p. 212-220.
8. Bernhard, A.E., et al., *Microbial community dynamics based on 16S rDNA profiles in a Pacific Northwest estuary and its tributaries.* FEMS MICROBIOLOGY ECOLOGY, 2005. **52**(1): p. 115-128.
9. Binckley, C.A. and W.J. Resetarits, *Habitat selection determines abundance, richness, and species composition of beetles in aquatic communities patterns of species distribution in aquatic beetles.* 2005. **1**(3): p. 370-374.
10. Blum, M.J., et al., *Characterization of microsatellite loci in Schoenoplectus americanus(Cyperaceae).* Molecular Ecology Notes, 2005. **5**(3): p. 661-663.
11. Borisova, T., et al., *Value of information for water quality management.* WATER RESOURCES RESEARCH, 2005. **41**(6): p. W06004-W06004.
12. Boyer, K. and P. Fong, *Macroalgal-mediated transfers of water column nitrogen to intertidal sediments and salt marsh plants.* Journal of Experimental Marine Biology and Ecology, 2005. **321**(1): p. 59-69.
13. Boyer, K. and P. Fong, *Co-occurrence of habitat-modifying invertebrates: effects on structural and functional properties of a created salt marsh.* Oecologia, 2005. **143**(4): p. 619-628.
14. Bradford, D.F., J.R. Jaeger, and S.A. Shanahan, *Distributional changes and population status of amphibians in the eastern Mojave Desert.* Western North American Naturalist, 2005. **65**(4): p. 462-472.

15. Bramblett, R.G., et al., *Development and Evaluation of a Fish Assemblage Index of Biotic Integrity for Northwestern Great Plains Streams*. Transactions of the American Fisheries Society, 2005. **134**(3): p. 624-640.
16. Brazner, J.C., et al., *Regional, watershed, and site-specific environmental influences on fish assemblage structure and function in western Lake Superior tributaries*. Canadian Journal of Fisheries and Aquatic Sciences, 2005. **62**(6): p. 1254-1270.
17. Breidt, F. and Hsu, *Best mean square prediction for moving averages*. Statistical Sinica, 2005. **15**(2): p. 427-446.
18. Breidt, F.J., G. Claeskens, and J.D. Opsomer, *Model-assisted estimation for complex surveys using penalised splines*. BIOMETRIKA, 2005. **92**(4): p. 831-846.
19. Brooks, J.R., et al., *Hydraulic redistribution in a Douglas-fir forest: lessons from system manipulations*. Plant, Cell and Environment, 2005. **29**: p. 138-150.
20. Brooks, P., et al., *Spatial and temporal variability in the amount and source of dissolved organic carbon: Implications for ultraviolet exposure in amphibian habitats*. Ecosystems, 2005. **8**(5): p. 478-487.
21. Brooks, R., et al., *Are we purveyors of wetland homogeneity? A model of degradation and restoration to improve wetland mitigation performance*. Ecological Engineering, 2005. **24**(4): p. 331-340.
22. Brown, B.S., N.E. Detenbeck, and R. Eskin, *HOW PROBABILITY SURVEY DATA CAN HELP INTEGRATE 305 (B) AND 303 (D) MONITORING AND ASSESSMENT OF STATE WATERS*. Environmental Monitoring and Assessment, 2005. **103**: p. 41-57.
23. Brown-Peterson, N.J., et al., *Molecular indicators of hypoxia in the blue crab *Callinectes sapidus**. MARINE ECOLOGY-PROGRESS SERIES, 2005. **286**: p. 203-215
24. Buchanan, R., L. Conquest, and Courbois, *A cost analysis of ranked set sampling to estimate a population mean*. Environmetrics, 2005. **16**(3): p. 235-256.
25. Burke, D.J., et al., *Ectomycorrhizal fungi identification in single and pooled root samples: terminal restriction fragment length polymorphism (TRFLP) and morphotyping compared*. Soil biology & biochemistry, 2005. **37**(9): p. 1683-1694.
26. Cairns, M.A. and K. Lajtha, *Effects of Succession on Nitrogen Export in the West-Central Cascades, Oregon*. Ecosystems, 2005. **8**(5): p. 583-601.
27. Carr, D.B., D. White, and A.M. MacEachren, *Conditioned Choropleth Maps and Hypothesis Generation*. Annals of the Association of American Geographers, 2005. **95**(1): p. 32-53.
28. Caswell, H., *Sensitivity analysis of the stochastic growth rate: Three extensions*. Australian & New Zealand Journal of Statistics, 2005. **47**(1): p. 75-85.
29. Chang, L.W., et al., *Responses of molecular indicators of exposure in mesocosms: common carp (*Cyprinus carpio*) exposed to the herbicides alachlor and atrazine*. Environ Toxicol Chem, 2005. **24**(1): p. 190-7.
30. Cherkauer, K.A., et al., *Assessing satellite-based thermal infrared remote sensing for monitoring Pacific Northwest river temperature*. JOURNAL OF THE AMERICAN WATER RESOURCES ASSOCIATION, 2005. **41**(5): p. 1149-1159.

31. Christman, M.C., et al., *ORIGINAL ARTICLE: Patterns of endemism of the eastern North American cave fauna*. *Journal of Biogeography*, 2005. **32**(8): p. 1441-1452.
32. Clark, J.E., et al., *Population Dynamics of Harvest Mice (Reithrodontomys fulvescens and R. montanus) Across a Nitrogen-amended Old Field*. *American Midland Naturalist*, 2005. **154**(1): p. 240-252.
33. Clark, J.E., et al., *Nitrogen outputs from fecal and urine deposition of small mammals: implications for nitrogen cycling*. *Oecologia*, 2005. **144**(3): p. 447-455.
34. Cohen, R.A. and P. Fong, *Experimental evidence supports the use of delta N-15 content of the opportunistic green macroalga *Enteromorpha intestinalis* (chlorophyta) to determine nitrogen sources to estuaries*. *JOURNAL OF PHYCOLOGY*, 2005. **41**(2): p. 287-293.
35. Collinge, S.K., et al., *Landscape structure and plague occurrence in black-tailed prairie dogs on grasslands of the western USA*. *LANDSCAPE ECOLOGY*, 2005. **20**(8): p. 941-955.
36. Collinge, S.K., et al., *Testing the generality of a trophic-cascade model for plague*. *ECOHEALTH*, 2005. **2**(2): p. 102-112.
37. Cooney, S., et al., *Modeling global warming scenarios in greenback cutthroat trout (*Oncorhynchus clarki stomias*) streams: implications for species recovery*. *Western North American Naturalist*, 2005. **65**(3): p. 371-381.
38. Crane, J.L., et al., *Evaluating methods for assessing sediment quality in a Great Lakes embayment*. *Aquatic Ecosystem Health & Management*, 2005. **8**(3): p. 323-349.
39. Cyterski, M.J. and J.J. Ney, *Availability of Clupeid Prey to Primary Piscivores in Smith Mountain Lake, Virginia*. *Transactions of the American Fisheries Society*, 2005. **134**(5): p. 1410-1421.
40. Danz, N., R.R., et al., *Environmentally stratified sampling design for the development of Great Lake environmental indicators*. *Environmental Monitoring and Assessment*, 2005. **102**(1-3): p. 41-65.
41. Dearfield, K.L., et al., *Ecological risk assessment issues identified during the U.S. Environmental Protection Agency's examination of risk assessment practices*. *Integr Environ Assess Manag*, 2005. **1**(1): p. 73-6.
42. Detenbeck, N.E., et al., *Watershed-Based Survey Designs*. *Environmental Monitoring and Assessment*, 2005. **103**(1): p. 59-81.
43. Diamond, S., et al., *Estimated ultraviolet radiation doses in wetlands in six national parks*. *Ecosystems*, 2005. **8**(5): p. 462-477.
44. Dick, L.K., et al., *Host distributions of uncultivated fecal Bacteroidales bacteria reveals host distributions and markers for fecal source identification*. *APPLIED ENVIRONMENTAL MICROBIOLOGY*, 2005. **71**(6): p. 3184-3191.
45. Dick, L.K., K.G. Field, and M.T. Simonich, *Microplate subtractive hybridization to enrich for ales genetic maille's for fecal source identification*. *APPLIED AND ENVIRONMENTAL MICROBIOLOGY*, 2005. **71**(6): p. 3179-3183.
46. Drake, J.M., *Risk analysis for species introductions: forecasting population growth of Eurasian ruffe (*Gymnocephalus cernuus*)*. *CANADIAN JOURNAL OF FISHERIES AND AQUATIC SCIENCES*, 2005. **62**(5): p. 1053-1059.

47. Dupont, J., et al., *Estimation of Critical Loads of Acidity for Lakes in Northeastern United States and Eastern Canada*. Environmental Monitoring and Assessment, 2005. **109**(1): p. 275-292.
48. Fairbrother, A. and J.G. Turnley, *Predicting risks of uncharacteristic wildfires: Application of the risk assessment process*. Forest ecology and management, 2005. **211**: p. 28-35.
49. Fath, B. and M. Beek, *Elucidating public perceptions of environmental behavior: a case study of Lake Lanier*. Environmental Modelling & Software, 2005. **20**(4): p. 485-498.
50. Fox, G.A., *Extinction risk of heterogeneous populations*. ECOLOGY, 2005. **86**(5): p. 1191-1198.
51. Francisco-Fernandez, M. and Opsomer, *Smoothing parameter selection methods for nonparametric regression with spatially correlated errors*. Canadian Journal of Statistics-Revue Canadienne de Statistique, 2005. **33**(2): p. 279-295.
52. Frost, P., et al., *Attenuation of ultraviolet radiation in streams of northern Michigan*. Journal of the North American Benthological Society, 2005. **24**(2): p. 246-255.
53. Fuentes, M., et al., *Spatial Association between Speciated Fine Particles and Mortality*. Biometrics, 2005. **62**(3): p. 855.
54. Fujiwara, M., et al., *Analysis of size trajectory data using an energetic-based growth model*. ECOLOGY, 2005. **86**(6): p. 1441-1451.
55. Griffith, M.B., B.H., et al., *Comparative application of periphyton, macroinvertebrate, and fish indices of biotic integrity to southern Rocky Mountain streams*. Ecological Indicators, 2005. **5**(2): p. 117-136.
56. Grigorovich, I., et al., *European valve snail *Valvata piscinalis* (Muller) in the Laurentian Great Lakes basin*. Journal of Great Lakes Research, 2005. **31**(2): p. 135-143.
57. Grigorovich, I.A., M.S. Kang, and J.J.H. Ciborowski, *Colonization of the Laurentian Great Lakes by the amphipod *Gammarus tigrinus*, a native of the North American Atlantic coast*. JOURNAL OF GREAT LAKES RESEARCH, 2005. **31**(3): p. 333-342.
58. Grigorovich, I.A., et al., *European valve snail *Valvata piscinalis* (Miller) in the Laurentian Great Lakes basin*. JOURNAL OF GREAT LAKES RESEARCH, 2005. **31**(2): p. 135-143
59. Groffman, P.M., A.M. Dorsey, and P.M. Mayer, *N processing within geomorphic structures in urban streams*. Journal of the North American Benthological Society, 2005. **24**(3): p. 613-625.
60. Han, L.H., *Estimating chlorophyll-a concentration using first derivative spectra in coastal water*. INTERNATIONAL JOURNAL OF REMOTE SENSING, 2005. **26**(23): p. 5235-5244.
61. Han, L.H. and K.J. Jordan, *Estimating and mapping chlorophyll-9*. INTERNATIONAL JOURNAL OF REMOTE SENSING, 2005. **26**(23): p. 5245-5254.
62. Hechinger, R.F. and K.D. Lafferty, *Host diversity begets parasite diversity: bird final hosts and trematodes in snail intermediate hosts*. PROCEEDINGS OF THE

- ROYAL SOCIETY SERIES B-BIOLOGICAL SCIENCES, 2005. **272**(1567): p. 1059-1066.
63. Hilal, S.H., L.L. Bornander, and L.A. Carreira, *Hydration Equilibrium Constants of Aldehydes, Ketones and Quinazolines*. QSAR AND COMBINATORIAL SCIENCE, 2005. **24**(5): p. 631.
  64. Hill, B.H., R., Blair, *Monitoring the condition of our nation's streams and rivers: From the mountains to the coasts: Introduction to Proceedings*. Environmental Monitoring and Assessment, 2005. **103**(1-3): p. 1-4.
  65. Holub, S.M., et al., *Organic matter manipulations have little effect on gross and net nitrogen transformations in two temperate forest mineral soils in the USA and central Europe*. Forest ecology and management, 2005. **214**(1-3): p. 320-330.
  66. Horan, R. and J. Shortle, *When two wrongs make a right: second-best point&ndash;nonpoint trading ratios*. AMERICAN JOURNAL OF AGRICULTURAL ECONOMICS, 2005. **87**(2): p. 340-352.
  67. Horan, R.D. and J.S. Shortle, *When two wrongs make a right: Second-best point-nonpoint trading ratios*. AMERICAN JOURNAL OF AGRICULTURAL ECONOMICS, 2005. **87**(2): p. 340-352.
  68. Horncastle, V.J., et al., *Implications of invasion by Juniperus virginiana on small mammals in the southern Great Plains*. Journal of mammalogy, 2005. **86**(6): p. 1144-1155.
  69. Host, G.E., et al., *Use of GIS and remotely sensed data for <em>a priori</em> identification of reference areas for Great Lakes coastal ecosystems*. INTERNATIONAL JOURNAL OF REMOTE SENSING, 2005. **26**(23): p. 5325-5342.
  70. Hunter, C. and Caswell, *Selective harvest of sooty shearwater chicks: effects on population dynamics and sustainability*. Journal of Animal Ecology, 2005. **74**(4): p. 589-600.
  71. Hunter, C.M. and H. Caswell, *The use of the vec-permutation matrix in spatial matrix population models*. ECOLOGICAL MODELLING, 2005. **188**(1): p. 15-21.
  72. Jaeger, J.R., B.R. Riddle, and D.F. Bradford, *Cryptic Neogene vicariance and Quaternary dispersal of the red-spotted toad(Bufo punctatus): insights on the evolution of North American warm desert biotas*. Molecular Ecology, 2005. **14**(10): p. 3033-3048.
  73. Jager, H., et al., *Spatial uncertainty analysis of population models*. Ecological Modelling, 2005. **185**(1): p. 13-27.
  74. Jarman, J.L., et al., *Application of Capillary Electrophoresis To Study the Enantioselective Transformation of Five Chiral Pesticides in Aerobic Soil Slurries*. J. Agric. Food Chem, 2005. **53**(16): p. 6175-6182.
  75. Jung, S. and E.D. Houde, *Fish Biomass Size Spectra in Chesapeake Bay*. Estuaries, 2005. **28**(2): p. 226-240.
  76. Kang, H. and E. Stanley, *Effects of levees on soil microbial activity in a large river floodplain*. River Research and Applications, 2005. **21**(1): p. 19-25.
  77. Kavlock, R., et al., *Computational toxicology: framework, partnerships, and program development. September 29-30, 2003, Research Triangle Park, North Carolina*. Reprod Toxicol, 2005. **19**(3): p. 265-80.

78. Kemp, W.M., et al., *Eutrophication of Chesapeake Bay: historical trends and ecological interactions*. Mar. Ecol. Prog. Ser, 2005. **303**: p. 1-29.
79. King, R.S., et al., *Spatial considerations for linking watershed land cover to ecological indicators in streams*. ECOLOGICAL APPLICATIONS, 2005. **15(1)**: p. 137-153
80. Kluza, D. and K. McNyset, *Ecological niche modeling of aquatic invasive species*. Aquatic Invaders, 2005. **16(1)**: p. 1-7.
81. Knightes, C.D. and M. Cyterski, *Evaluating predictive errors of a complex environmental model using a general linear model and least square means*. Ecological Modelling, 2005. **186(3)**: p. 366-374.
82. Konwick, B.J., et al., *Acute Enantioselective Toxicity of Fipronil and Its Desulfinyl Photoproduct to Ceriodaphnia dubia*. Environ. Toxicol. Chem, 2005. **24**: p. 2350-2355.
83. Lafferty, K.D., et al., *Trematodes associated with mangrove habitat in Puerto Rican salt marshes*. JOURNAL OF PARASITOLOGY, 2005. **91(3)**: p. 697-699.
84. Lefsky, M., et al., *Combining lidar estimates of aboveground biomass and Landsat estimates of stand age for spatially extensive validation of modeled forest productivity*. Remote Sensing of Environment, 2005. **95(4)**: p. 549-558.
85. Lewitus, A.J., et al., *Adapting the CHEMTAX method for assessing phytoplankton taxonomic composition in southeastern U.S. estuaries*. ESTUARIES, 2005. **28(1)**: p. 160-172
86. Lincoln, D., et al., *Bromophenol accumulation and sediment contamination by the marine annelids Notomastus lobatus and Thelepus crispus*. Biochemical Systematics and Ecology, 2005. **33(6)**: p. 559-570.
87. Litchman, E. and P.J. Neale, *UV effects on photosynthesis, growth and acclimation of an estuarine diatom and cryptomonad*. MARINE ECOLOGY-PROGRESS SERIES, 2005. **300**: p. 53-62.
88. Liu, Y., et al., *Estimating ground-level PM<sub>2.5</sub> in the eastern United States using satellite remote sensing*. Environ Sci Technol, 2005. **39(9)**: p. 3269-78.
89. Lunetta, R.S., R.G. Greene, and J.G. Lyon, *Modeling the distribution of diffuse nitrogen sources and sinks in the Neuse River Basin of North Carolina, USA*. Journal of the American Water Resources Association, 2005. **41(5)**: p. 1129-1147.
90. Martin, K.J. and P.T. Rygiewicz, *Fungal-specific PCR primers developed for analysis of the ITS region of environmental DNA extracts*. BMC Microbiology, 2005. **5**: p. 28.
91. Mayer, P., et al., *Invasive grass alters litter decomposition by influencing macrodetritivores*. Ecosystems, 2005. **8(2)**: p. 200-209.
92. McNamara, S. and R. Luthy, *Sorbent wicking device for sampling hydrophobic organic compounds in unsaturated soil pore water. I: Design and hydraulic characteristics*. Journal of Environmental Engineering-ASCE, 2005. **131(1)**: p. 11-20.
93. McNamara, S. and R. Luthy, *Sorbent wicking device for sampling hydrophobic organic compounds in unsaturated soil pore water. II: Chemical capture, recovery, and analysis*. Journal of Environmental Engineering-ASCE, 2005. **131(1)**: p. 21-28.

94. Mehaffey, M., et al., *Linking land cover and water quality in New York City's water supply watersheds*. Environmental Monitoring and Assessment, 2005. **107**(1-3): p. 29-44.
95. Miracle, A.L. and G.T. Ankley, *Ecotoxicogenomics: linkages between exposure and effects in assessing risks of aquatic contaminants to fish*. Reprod Toxicol, 2005. **19**(3): p. 321-6.
96. Montanari, G.E. and M.G. Ranalli, *Nonparametric model calibration estimation in survey sampling*. JOURNAL OF THE AMERICAN STATISTICAL ASSOCIATION, 2005. **100**(472): p. 1429-1442.
97. Morris, J.T., et al., *Integrating LIDAR elevating data multi-spectral imagery and neural network modelling for marsh characterization*. INTERNATIONAL JOURNAL OF REMOTE SENSING, 2005. **26**(23): p. 5221-5234.
98. Morris, J.T., et al., *Integrating LIDAR elevation data, multi-spectral imagery and neural network modeling techniques for marsh classification*. INTERNATIONAL JOURNAL OF REMOTE SENSING, 2005. **26**(23): p. 5221-5234.
99. Mottaleb, M.A., et al., *Nitro Musk Adducts of Rainbow Trout Hemoglobin: Dose-Response and Toxicokinetics Determination by GC-NICI-MS for a Sentinel Species*. AMERICAN BIOTECHNOLOGY LABORATORY, 2005. **23**(7): p. 24.
100. Murphy, C., K. Rose, and P. Thomas, *Modeling vitellogenesis in fish: predicting the effects of endocrine disruption*. Reproductive Toxicology, 2005. **19**(3): p. 395-409.
101. Murphy, C.A., K.A. Rose, and P. Thomas, *Modeling vitellogenesis in female fish exposed to environmental stressors: predicting the effects of endocrine disturbance due to exposure to a PCB mixture and cadmium*. REPRODUCTIVE TOXICOLOGY, 2005. **19**(3): p. 395-409 </p>.
102. Nash, M.S., D. Chaloud, and S. Franson, *Association of Landscape Metrics to Surface Water Biology in the Savannah River Basin*. Journal of Mathematics and Statistics, 2005. **1**(1): p. 29-34.
103. Novotny, V., *The next step - incorporating diffuse pollution abatement into watershed management*. WATER SCIENCE AND TECHNOLOGY, 2005. **51**(3-4): p. 1-9.
104. Novotny, V., et al., *Unlocking the relationship of biotic waters to anthropogenic integrity of impaired stresses*. Water Research, 2005. **39**(1): p. 184-198.
105. Olszyk, D., et al., *Xeromorphy increases in shoots of Pseudotsuga menziesii (Mirb.) Franco seedlings with exposure to elevated temperature but not elevated CO 2*. Trees-Structure and Function, 2005. **19**(5): p. 552-563.
106. Opsomer, J. and Miller, *Selecting the amount of smoothing in nonparametric regression estimation for complex surveys*. Journal of Nonparametric Statistics, 2005. **17**(5): p. 593-611.
107. Overmyer, J., B. Mason, and K. Armbrust, *Acute toxicity of imidacloprid and fipronil to a nontarget aquatic insect, Simulium vittatum Zetterstedt cytospecies IS-7*. Bulletin of Environmental Contamination and Toxicology, 2005. **74**(5): p. 872-879.
108. Overmyer, J., R. Noblet, and K. Armbrust, *Impacts of lawn-care pesticides on aquatic ecosystems in relation to property value*. Environmental Pollution, 2005. **137**(2): p. 263-272.

109. Paerl, H.W., et al., *Determining anthropogenic and climatically-induced change in aquatic ecosystems using microbial indicators: an integrative approach*. VERHANDLUNGEN INTERNATIONALE VEREINIGUNG FÜR THEORETISCHE UND ANGEWANDTE LIMNOLOGIE, 2005. **29(Pt 1)**: p. 89-133.
110. Paul, J.F. and M. McDonald, *GEOGRAPHIC-SPECIFIC WATER QUALITY CRITERIA DEVELOPMENT WITH MONITORING DATA USING CONDITIONAL PROBABILITIES - A PROPOSED APPROACH*. Journal of American Water Resources Association, 2005. **41(5)**: p. 1211-1223.
111. Pearl, C.A., et al., *AMPHIBIAN OCCURRENCE AND AQUATIC INVADERS IN A CHANGING LANDSCAPE: IMPLICATIONS FOR WETLAND MITIGATION IN THE WILLAMETTE VALLEY, OREGON, USA*. Wetlands, 2005. **25(1)**: p. 76-88.
112. Petrosillo, I., et al., *Linkages Among Landscape Assessment, Quality of Life and Environmental Security*. Ecosys Beiträge zur Ökosystemforschung, 2005. **11**: p. 1-168.
113. Pflieger, T., *Moving Plant Toxicology from the Greenhouse to the Field: A Method that Incorporates the Positive Attributes of Each*. Bulletin of Environmental Contamination and Toxicology, 2005. **74(1)**: p. 16-23.
114. Pozhitkov, A., et al., *Evaluation of gel-pad oligonucleotide DNA microarray technology by using artificial neural networks*. APPLIED AND ENVIRONMENTAL MICROBIOLOGY, 2005. **71(72)**: p. 8663-8676.
115. Price, S.J., et al., *The importance of spatial scale for conservation and assessment of anuran populations in coastal wetlands of the western Great Lakes, USA*. LANDSCAPE ECOLOGY, 2005. **20(4)**: p. 441-454.
116. Pruell, R.J., et al., *Nitrogen isotope ratios in estuarine biota collected along a nutrient gradient in Narragansett Bay, Rhode Island, USA*. Mar Pollut Bull, 2005.
117. Qian, S.S., et al., *Nonlinear regression modeling of nutrient loads in streams: A Bayesian approach*. WATER RESOURCES RESEARCH, 2005. **41(7)**: p. Art. No. W07012-Art. No. W07012.
118. Rabideau, A., et al., *Influence of numerical precision on the calibration of AEM-based groundwater flow models*. Environmental Geology, 2005. **48(1)**: p. 57-67.
119. Rashleigh, B. and G.D. Grossman, *An individual-based simulation model for mottled sculpin (*Cottus bairdi*) in a southern Appalachian stream*. Ecological Modelling, 2005. **187(2)**: p. 247-258.
120. Rashleigh, B., et al., *Predictive habitat models for the occurrence of stream fishes in the mid-atlantic highlands*. North American journal of fisheries management, 2005. **25(4)**: p. 1353-1366.
121. Reese, G.C., et al., *Factors affecting species distribution predictions: A simulation modeling experiment*. ECOLOGICAL APPLICATIONS, 2005. **15(2)**: p. 554-564.
122. Roark, S.A., et al., *Population genetic structure and tolerance to dioxin-like compounds of a migratory marine fish (*Menidia menidia*) at polychlorinated biphenyl-contaminated and reference sites*. Environ Toxicol Chem, 2005. **24(3)**: p. 726-32.



123. Roark, S.A., et al., *Population genetic structure of a nonmigratory estuarine fish (Fundulus heteroclitus) across a strong gradient of polychlorinated biphenyl contamination*. Environ Toxicol Chem, 2005. **24**(3): p. 717-25.
124. Rosal, C., G. Momplaisir, and E. Heithmar, *Roxarsone and transformation products in chicken manure: Determination by capillary electrophoresis-inductively coupled plasma-mass spectrometry*. Electrophoresis, 2005. **26**(7-8): p. 1606-1614.
125. Rose, K., *Lack of relationship between fish population responses and their life history traits: inaccurate models, incorrect analyses, or importance of site-specific factors*. Canadian Journal of Fisheries and Aquatic Sciences., 2005. **62**(4): p. 886-902.
126. Rose, W.L., et al., *Validation of otolith growth rate analysis using cadmium-exposed larval topsmelt (<em>Atherinops affinis</em>)*. ENVIRONMENTAL TOXICOLOGY AND CHEMISTRY, 2005. **24**(10): p. 2612-2620.
127. Rosso, P.H., et al., *Reflectance properties and physiological responses of <em>Salicornia virginica</em> to heavy metal and petroleum contamination*. ENVIRONMENTAL POLLUTION, 2005. **137**(2): p. 241-252.
128. Rueda, F., et al., *On the effects of topography on wind and the generation of currents in a large multi-basin lake*. Hydrobiologia, 2005. **532**: p. 139-151.
129. Salinas, K.A. and J. Kotcon, *In vitro culturing of the predatory soil nematode Clarkus papillatus*. Nematology, 2005. **7**(1): p. 5-9.
130. Sanders, B.F., F. Arega, and M. Sutula, *Modeling the dry-weather tidal cycling of enteric bacteria in surface waters of an intertidal wetland*. WATER RESEARCH, 2005. **39**(15): p. 3394-3408
131. Santavy, D.L., et al., *The condition of coral reefs in South Florida (2000) using coral disease and bleaching as indicators*. Environmental Monitoring and Assessment, 2005. **100**(1): p. 129-152.
132. Schrott, G., K. With, and A. King, *On the importance of landscape history for assessing extinction risk*. Ecological Applications, 2005. **15**(2): p. 493-506.
133. Schweiger, E.W., D.W., Bolgrien, T.R., Angradi, J.R., Kel, *Environmental monitoring and assessment of a Great River ecosystem: The Upper Missouri River Pilot*. Environmental Monitoring and Assessment, 2005. **103**(1-3): p. 21-40.
134. Schweik, C., A. Stepanov, and J. Grove, *The open research system: a web-based metadata and data repository for collaborative research*. Computers and Electronics in Agriculture, 2005. **47**(3): p. 221-242.
135. Seagle, S. and B. Sturtevant, *Forest productivity predicts invertebrate biomass and ovenbird (Seiurus aurocapillus) reproduction in Appalachian landscapes*. Ecology, 2005. **86**(6): p. 1531-1539.
136. Serveiss, V., et al., *Improving the TMDL process using watershed risk assessment principles*. Environmental Management, 2005. **36**(1): p. 143-151.
137. Shaw, J.C., L. Aguirre-Macedo, and K.D. Lafferty, *An efficient strategy to estimate intensity and prevalence: Sampling metacercariae in fishes*. JOURNAL OF PARASITOLOGY, 2005. **91**(3): p. 515-521.
138. Shi, X., R.J. Mitchell, and H.J. Michaels, *Effects of self-pollination and maternal resources on reproduction and offspring performance in the wild Lupine, Lupinus perennis (Fabaceae)*. SEXUAL PLANT REPRODUCTION, 2005. **18**(2): p. 55-64.

139. Silva, R., et al., *Relationships between culturable soil microbial populations and gross nitrogen transformation processes in a clay loam soil across ecosystems*. Nutrient Cycling in Agroecosystems, 2005. **71**(3): p. 259-270.
140. Silva, R.G., et al., *A Lysimeter Study to Investigate the Effect of Dairy Effluent and Urea on Cattle Urine n Losses, Plant Uptake and Soil Retention*. Water, Air, & Soil Pollution, 2005. **164**(1): p. 57-78.
141. Silva, R.G., et al., *Indicators of nitrate leaching loss under different land use of clayey and sandy soils in southeastern Oklahoma*. Agriculture, Ecosystems & Environment, 2005. **109**(3): p. 346-359.
142. Skjelkvale, B.L., et al., *Regional scale evidence for improvements in surface water chemistry 1990-2001*. Environ Pollut, 2005. **137**(1): p. 165-76.
143. Stoddard, J.L., *Use of Ecological Regions in Aquatic Assessments of Ecological Condition*. Environmental Management, 2005. **34**: p. 61-70.
144. Stram, D.L., C.R. Kincaid, and D.E. Campbell, *Water quality modeling in the rio chone estuary*. Journal of coastal research, 2005. **21**: p. 797-810.
145. Suter 2nd, G.W., S.B. Norton, and A. Fairbrother, *Individuals versus organisms versus populations in the definition of ecological assessment endpoints*. Integrated Environmental Assessment and Management, 2005. **1**(4): p. 397-400.
146. Thomas, J.A., E.B. Emery, and F.H. McCormick, *Detection of Temporal Trends in Ohio River Fish Assemblages Based on Lockchamber Surveys (1957-2001)*. AMERICAN FISHERIES SOCIETY SYMPOSIUM, 2005. **45**: p. 431-450.
147. Tingey, D.T., et al., *Estimates of Douglas-fir fine root production and mortality from minirhizotrons*. Forest ecology and management, 2005. **204**(2-3): p. 359-370.
148. Tran, L.T., et al., *Sensitivity Analysis of Aggregated Environmental Indices With a Case-Study of the Mid-Atlantic Region*. Environmental Management, 2005.
149. Tran, L.T., et al., *Mapping spatial thematic accuracy with fuzzy sets*. Photogrammetric Engineering and Remote Sensing, 2005. **71**(1): p. 29-36.
150. Trebitz, A.S., et al., *HYDROMORPHIC DETERMINANTS OF AQUATIC HABITAT VARIABILITY IN LAKE SUPERIOR COASTAL WETLANDS*. Wetlands, 2005. **25**(3): p. 505-519.
151. Tremblay, T.A., W.A. White, and J.A. Raney, *Native century woodland loss during the mid 1900s in Cameron County, Texas*. SOUTHWESTERN NATURALIST, 2005. **50**(4): p. 479-482.
152. Vahatalo, A., R. Wetzel, and Paerl, *Light absorption by phytoplankton and chromophoric dissolved organic matter in the drainage basin and estuary of the Neuse River, North Carolina*. Freshwater Biology, 2005. **50**(3): p. 477-493.
153. Vahatalo, A.V., R.G. Wetzel, and H.W. Paerl, *Light absorption by phytoplankton and chromophoric dissolved organic matter in the drainage basin and estuary of the Neuse River, North Carolina (USA)*. FRESHWATER BIOLOGY, 2005. **50**(3): p. 477-493.
154. Valett, H.M., et al., *BIOGEOCHEMICAL AND METABOLIC RESPONSES TO THE FLOOD PULSE IN A SEMIARID FLOODPLAIN*. Ecology, 2005. **86**(1): p. 220-234.

155. Van Sickle, J., et al., *A null model for the expected macroinvertebrate assemblage in streams*. Journal of the North American Benthological Society, 2005. **24**(1): p. 178-191.
156. Van Tuyl, S., et al., *Variability in net primary production and carbon storage in biomass across Oregon forests - an assessment integrating data from forest inventories, intensive sites, and remote sensing*. Forest Ecology and Management, 2005. **209**(3): p. 273-291.
157. Van Tuyl, S., et al., *Variability in net primary production and carbon storage in biomass across Oregon forests - An assessment integrating data from forest inventories, intensive sites, and remote sensing*. FOREST ECOLOGY AND MANAGEMENT, 2005. **209**(3): p. 273-291.
158. Villeneuve, D.L., et al., *Relationship between brain and ovary aromatase activity and isoform-specific aromatase mRNA expression in the fathead minnow (*Pimephales promelas*)*. Aquat Toxicol, 2005. **76**: p. 353-368.
159. Wardrop, D.H., et al., *Characterization and use of landscape and land use parameters for classification and characterization of watersheds in the mid-Atlantic across five physiographic provinces*. ENVIRONMENTAL AND ECOLOGICAL STATISTICS, 2005. **12**(2): p. 209-223.
160. Werner, P. and J.P. Smol, *Diatom—environmental relationships and nutrient transfer functions from contrasting shallow and deep limestone lakes in Ontario, Canada*. HYDROBIOLOGIA, 2005. **533**: p. 145-173.
161. Winfree, R.A. and S. Marcy, *Science in Alaska National Parks: Challenges and Opportunities for the 21st Century*. Alaska Park Science, 2005. **4**(2): p. 47-51.
162. Wollheim, W.M., et al., *N retention in urbanizing headwater catchments*. ECOSYSTEMS, 2005. **8**(8): p. 871-884.
163. Yang, X.J., *Remote sensing and GIS applications for analysis: an overview*. INTERNATIONAL JOURNAL OF REMOTE SENSING, 2005. **26**(23): p. 5347-5356.
164. Yang, X.J., *Remote sensing and GIS for estuarine ecosystem analysis.-Preface*. INTERNATIONAL JOURNAL OF REMOTE SENSING, 2005. **26**(23): p. 5167-5168.
165. Yang, X.J. and Z. Liu, *Quantifying landscape pattern and its change in an estuarine watershed using satellite imagery and landscape metrics*. INTERNATIONAL JOURNAL OF REMOTE SENSING, 2005. **26**(23): p. 5297-5323.
166. Yeager, C.L.J., L.W. Harding, and M.E. Mallonee, *Phytoplankton production, biomass and community structure following a summer nutrient pulse in Chesapeake Bay*. Aquatic Ecology, 2005. **39**(2): p. 135-149.
167. Young, K., et al., *Degradation of surface-water dissolved organic matter: influences of DOM chemical characteristics and microbial populations*. Hydrobiologia, 2005. **539**: p. 1 to 11.
168. Young, K.C., et al., *Influences of carbon quality and microbial populations upon dissolved organic matter degradation in two streams and a dystrophic pond*. HYDROBIOLOGIA, 2005. **539**: p. 1-11.
169. Yuan, L., *Sources of bias in weighted average inferences of environmental conditions*. Journal of Paleolimnology, 2005. **34**(2): p. 245-255.

170. Yurista, P., J.R. Kelly, and S. Miller, *Evaluation of optically acquired zooplankton size-spectrum data as a potential tool for assessment of condition in the Great Lakes*. Environmental Management, 2005. **35**(1): p. 34-44.
171. Zimmerman, D.L. and D.M. Holland, *Complementary co-kriging: spatial prediction using data combined from several environmental monitoring networks*. Environmetrics, 2005. **16**(3): p. 219-234.
172. *Long-term temporal and spatial trends in phytoplankton biomass and class-level taxonomic composition in the hydrologically variable Neuse-Pamlico estuarine continuum, North Carolina, USA*. LIMNOLOGY AND OCEANOGRAPHY, 2006. **51**(3): p. 1410-1420.
173. *Neural net modeling of estuarine indicators: hindcasting phytoplankton biomass and net ecosystem production in the Neuse (North Carolina) and Trout (Florida) Rivers, USA*. ECOLOGICAL INDICATORS, 2006. **6**(3): p. 589-608.
174. Adolf, J.E., D.K. Stoecker, and L.W. Harding, *The balance of autotrophy and heterotrophy during mixotrophic growth of Karlodinium micrum(Dinophyceae)*. Journal of Plankton Research, 2006. **28**(8): p. 737.
175. Adolf, J.E., et al., *Environmental forcing of phytoplankton floral composition, biomass, and primary productivity in Chesapeake Bay, USA*. Estuarine, coastal and shelf science(Print), 2006. **67**(1-2): p. 108-122.
176. Anderson, J., R. Baumgardner, and S. Grenville, *Trends in Cloud Water Sulfate and Nitrate as Measured at Two Mountain Sites in the Eastern United States*. Atmospheric Environment, 2006. **40**(1): p. 4423-4437.
177. Anderson, S.L., et al., *Integrating contaminant responses in indicator saltmarsh species [short communication]*. MARINE ENVIRONMENTAL RESEARCH, 2006. **62**(Suppl. 1): p. S317-S321.
178. Angradi, T.R., B. Schweiger, and D.W. Bolgrien, *INTER-HABITAT VARIATION IN THE BENTHOS OF THE UPPER MISSOURI RIVER (NORTH DAKOTA, USA): IMPLICATIONS FOR BIOASSESSMENT*. River Research and Applications, 2006. **22**: p. 755-773.
179. Battin, J. and J.J. Lawler, *Cross-scale correlations and the design and analysis of avian habitat selection studies*. Condor, 2006. **108**: p. 59-70.
180. Bennett, R.S. and M.A. Etterson, *Estimating Pesticide Effects on Fecundity Rates of Wild Birds Using Current Laboratory Reproduction Tests*. Human and Ecological Risk Assessment, 2006. **12**(4): p. 762-781.
181. Biber, P.D. and E.A. Irlandi, *Temporal and spatial dynamics of macroalgal communities along an anthropogenic salinity gradient in Biscayne Bay*. AQUATIC BOTANY, 2006. **85**(1): p. 65-77.
182. Bracken, C.L., C.W. Hendricks, and A.K. Harding, *Apparent bias in river water inoculum following centrifugation*. J Microbiol Methods, 2006. **67**: p. 304-309.
183. Bright, D.S., D.L. Cooperrider, and W.B. Galloway, *APPRECIATIVE INQUIRY IN THE OFFICE OF RESEARCH AND DEVELOPMENT: Improving the Collaborative Capacity of Organization*. Public Performance & Management Review, 2006. **29**(3): p. 285-306.
184. Bryce, S.A., *Development of a Bird Integrity Index: Measuring Avian Response to Disturbance in the Blue Mountains of Oregon, USA*. Environmental Management, 2006. **38**(3): p. 470-486.

185. Cai, T.T., C.L. Montague, and J.S. Davis, *The maximum power principle: An empirical investigation*. Ecological modelling, 2006. **190**(3-4): p. 317-335.
186. Cantrell, S.A., L. Casillas-Martinez, and M. Molina, *Characterization of fungi from hypersaline environments of solar salterns using morphological and molecular techniques*. Mycol Res, 2006. **110**(8): p. 962-970.
187. Colón, D., E.J. Weber, and J.L. Anderson, *QSAR Study of the Reduction of Nitroaromatics by Fe (II) Species*. Environ. Sci. Technol, 2006. **40**(16): p. 4976-4982.
188. Colón, D., et al., *Reduction of Nitrosobenzenes and N-Hydroxylanilines by Fe (II) Species: Elucidation of the Reaction Mechanism*. Environ. Sci. Technol, 2006. **40**(14): p. 4449-4454.
189. Cormier, S.M. and E.L.C. Lin, *Reference Values for Exposure to PAH Contaminants: Comparison of Fish from Ohio and Mid-Atlantic Streams*. Ecotoxicology, 2006. **15**(2): p. 111-120.
190. Corstanje, R. and K.R. Reddy, *Typha latifolia and Cladium jamaicense litter decay in response to exogenous nutrient enrichment*. AQUATIC BOTANY, 2006. **84**(1): p. 70-78.
191. Cronin, T.M. and H.A. Walker, *Restoring Coastal Ecosystems and Abrupt Climate Change*. Climatic Change, 2006. **74**(4): p. 369-376.
192. Culver, D.C., et al., *The mid-latitude biodiversity ridge in terrestrial cave fauna*. Ecography, 2006. **29**: p. 120.
193. Cytorski, M. and C. Barber, *Identification and Prediction of Fish Assemblages in Streams of the Mid- Atlantic Highlands, USA*. Transactions of the American Fisheries Society, 2006. **135**(1): p. 40-48.
194. Darling, J.A., A.M. Reitzel, and J.R. Finnerty, *PRIMER NOTE Characterization of microsatellite loci in the widely introduced estuarine anemone Nematostella vectensis*. Molecular Ecology Notes, 2006. **6**(3): p. 803-805.
195. Duirk, S.E. and T.W. Collette, *Degradation of Chlorpyrifos in Aqueous Chlorine Solutions: Pathways, Kinetics, and Modeling*. Environ. Sci. Technol, 2006. **40**(2): p. 546-551.
196. Engel-Cox, J., et al., *Integrating Lidar and Satellite Optical Depth With Ambient Monitoring for 3-Dimensional Particulate Characterization*. Atmospheric Environment, 2006. **40**(40): p. 8056-8067.
197. Engel-Cox, J., et al., *Using Particulate Matter Concentration and Lidar and Satellite Optical Depth to Build a 3-Dimensional Integrated Air Quality Monitoring Capability*. Atmospheric Environment, 2006.
198. Farber, S., et al., *Linking Ecology and Economics for Ecosystem Management*. BIOSCIENCE-WASHINGTON-, 2006. **56**(2): p. 121-133.
199. Fernald, A.G., D.H. Landers, and P.J. Wigington Jr, *WATER QUALITY CHANGES IN HYPORHEIC FLOW PATHS BETWEEN A LARGE GRAVEL BED RIVER AND OFF-CHANNEL ALCOVES IN OREGON, USA*. River Research and Applications, 2006. **22**: p. 1111-1124.
200. Ferraro, S.P., F.A. Cole, and A.R. Olsen, *A More Cost-Effective Emap Benthic Macrofaunal Sampling Protocol*. Environmental Monitoring and Assessment, 2006. **116**(1): p. 275-290.

201. Fleming, E.J., et al., *Mercury methylation from unexpected sources: molybdate-inhibited freshwater sediments and an iron-reducing bacterium*. APPLIED AND ENVIRONMENTAL MICROBIOLOGY, 2006. **72**(1): p. 457-464.
202. Freemark, K.E., et al., *Species richness and biodiversity conservation priorities in British Columbia, Canada*. Canadian Journal of Zoology/Revue Canadienne de Zoologie, 2006. **84**(1): p. 20-31.
203. Garrison, A.W., *Probing the enantioselectivity of chiral pesticides*. Environ Sci Technol, 2006. **40**(1): p. 16-23.
204. Gordon, D.A., et al., *Effects of eutrophication on vitellogenin gene expression in male fathead minnows (*Pimephales promelas*) exposed to 17alpha-ethynylestradiol in field mesocosms*. Environ Pollut, 2006.
205. Groffman, P.M., et al., *Ecological thresholds: The key to successful environmental management or an important concept with no practical application?* ECOSYSTEMS, 2006. **9**(1): p. 1-13.
206. Handcock, R.N., et al., *Accuracy and uncertainty of remote sensing thermal infrared remote sensing of stream temperatures at multiple spatial scales*. REMOTE SENSING OF ENVIRONMENT, 2006. **100**(4): p. 427-440.
207. Hill, B.H., et al., *Sediment microbial enzyme activity as an indicator of nutrient limitation in Great Lakes coastal wetlands*. Freshwater Biology, 2006. **51**: p. 1670-1683.
208. Hoekstra, P.F., et al., *Estrogenic activity of dicofol with the human estrogen receptor: Isomer-and enantiomer-specific implications*. Chemosphere, 2006. **64**(1): p. 174-177.
209. Hoeting, J.A., et al., *Model selection for geostatistical models*. ECOLOGICAL APPLICATIONS, 2006. **16**(1): p. 87-98.
210. Hwang, H.M., P.G. Green, and T.M. Young, *Tidal salt marsh sediment in California, USA. Part 1: Occurrence and sources of organic contaminants*. CHEMOSPHERE, 2006. **64**(8): p. 1383-1392.
211. Jackson, L.E., E.D. Hilborn, and J.C. Thomas, *Towards landscape design guidelines for reducing Lyme disease risk*. International Journal of Epidemiology, 2006. **35**(2): p. 315.
212. Kania-Korwel, I., et al., *Distribution of chiral PCBs in selected tissues in the laboratory rat*. Environ Sci Technol, 2006. **40**(12): p. 3704-10.
213. Kimmel, D.G., W.D. Miller, and M.R. Roman, *Regional Scale Climate Forcing of Mesozooplankton Dynamics in Chesapeake Bay*. Estuaries and Coasts, 2006. **29**(3): p. 375-387.
214. Kimmel, D.G., M.R. Roman, and X. Zhang, *Spatial and temporal variability in factors affecting mesozooplankton dynamics in Chesapeake Bay: Evidence from biomass size spectra*. Limnology and oceanography, 2006. **51**(1): p. 131-141.
215. Knight, J., et al., *Regional Scale Land Cove Characterization Using Modis-Ndvi 250 in Multi-Temporal Imagery: a Phenology Based Approach*. GIScience and Remote Sensing, 2006. **43**(1): p. 123.
216. Konwick, B.J., et al., *Bioaccumulation, biotransformation, and metabolite formation of fipronil and chiral legacy pesticides in rainbow trout*. Environ. Sci. Technol, 2006. **40**(9): p. 2930-2936.

217. Kurtz, J.C., et al., *Classifying Coastal Waters: Current Necessity and Historical Perspective*. Estuaries and Coasts, 2006. **29**(1): p. 107-123.
218. Lawler, J.J., et al., *Predicting climate-induced range shifts: model differences and model reliability*. 2006.
219. Lewis, M.A., et al., *Field Characterization of Potential Reference Sediments in the Gulf of Mexico: Chemical and Biological Quality*. Soil and Sediment Contamination (formerly Journal of Soil Contamination), 2006. **15**(1): p. 1-20.
220. Lu, H., et al., *EMERGY SYNTHESIS OF AN AGRO-FOREST RESTORATION SYSTEM IN LOWER SUBTROPICAL CHINA*. Ecological Engineering, 2006. **27**(3): p. 175-192.
221. Lunetta, R., et al., *Land Cover Change Detection Using Multi-Temporal MODIS NDVI Data*. Remote Sensing of Environment, 2006. **105**: p. 142-154.
222. McMillan, A., et al., *Genetic diversity and structure of an estuarine fish (*Fundulus heteroclitus*) indigenous to sites associated with a highly contaminated urban harbor*. Ecotoxicology, 2006. **15**(6): p. 538-548.
223. McNyset, K.M. and J.K. Blackburn, *BIODIVERSITY LETTER Does GARP really fail miserably? A response to Stockman et al.(2006)*. Diversity and Distributions, 2006. **12**: p. 782-786.
224. Mehaffey, M., et al., *Biological Integrity in Mid-Atlantic Coastal Plains Headwater Streams*. Environmental Monitoring and Assessment, 2006. **124**(1-3): p. 141-156.
225. Meinzer, F.C., et al., *Dynamics of water transport and storage in conifers studied with deuterium and heat tracing techniques*. PLANT CELL AND ENVIRONMENT, 2006. **29**(1): p. 105.
226. Miller, W.D., D.G. Kimmel, and L.W. Harding, *Predicting spring discharge of the Susquehanna River from a winter synoptic climatology for the eastern United States*. Water Resources Research, 2006. **42**(5): p. W05414-W05414.
227. Mohamoud, Y. and R. Parmar, *Estimating Streamflow and Associated Hydraulic Geometry, the Mid-Atlantic Region*. Journal of the American Water Resources Association, 2006. **42**(3): p. 755-768.
228. Mumby, P.J., *Connectivity of reef fish between mangroves and coral reefs: algorithms for the design of marine reserves at seascape scales*. BIOLOGICAL CONSERVATION, 2006. **128**(2): p. 215-222
229. Mumby, P.J., et al., *Marine parks need sharks? &ndash; Response*. SCIENCE, 2006. **312**(5773): p. 527-527
230. Munns Jr, W.R., *Assessing Risks to Wildlife Populations from Multiple Stressors: Overview of the Problem and Research Needs*. Ecology and Society-, 2006. **11**(1).
231. Natesan, E. and M. Slimak, *The Need for Ecological Information and the Use of Bioindicators in US Federal Regulatory Agencies*. Environmental Bioindicators, 2006. **1**(1): p. 74-97.
232. Orme-Zavaleta, J., et al., *Discovering Spatio-Temporal Models of the Spread of West Nile Virus*. Risk Analysis, 2006. **26**(2): p. 413-422.
233. Paerl, H.W., *Assessing and managing nutrient-enhanced eutrophication in estuarine and coastal waters: interactive effects of human and climatic perturbations*. ECOLOGICAL ENGINEERING, 2006. **26**(1): p. 40-54.

234. Paerl, H.W., et al., *Anthropogenic and climatic influences on the eutrophication of large estuarine ecosystems*. LIMNOLOGY AND OCEANOGRAPHY, 2006. **51(1, Part 2)**: p. 448-462.
235. Paerl, H.W., et al., *Assessing the Effects of Nutrient Management in an Estuary Experiencing Climatic Change: The Neuse River Estuary, North Carolina*. Environmental Management, 2006. **37(3)**: p. 422-436.
236. Pan, Y., et al., *Relationships Between Environmental Variables and Benthic Diatom Assemblages in California Central Valley Streams (USA)*. Hydrobiologia, 2006. **561(1)**: p. 119-130.
237. Phillips, D.L. and P.M. Eldridge, *Estimating the timing of diet shifts using stable isotopes*. Oecologia, 2006. **147(2)**: p. 195-203.
238. Phillips, D.L., et al., *CO<sub>2</sub> and N-fertilization effects on fine-root length, production, and mortality: a 4-year ponderosa pine study*. Oecologia, 2006. **148(3)**: p. 517-525.
239. Reynolds Jr, S.K. and A.C. Benke, *Chironomid Emergence and Relative Emergent Biomass from Two Alabama Streams*. Southeastern Naturalist, 2006. **5(1)**: p. 165-174.
240. Riitters, K.H., J.D. Wickham, and T.G. Wade, *Evaluating Ecoregions for Sampling and Mapping Land-Cover Patterns*. Photogrammetric Engineering and Remote Sensing, 2006. **72(7)**: p. 781-788.
241. Ringbauer Jr, J.A., J.B. James, and F.J. Genthner, *Effects of large-scale poultry farms on aquatic microbial communities: a molecular investigation*. J Water Health, 2006. **4(1)**: p. 77-86.
242. Rossignol, P.A., J. Orme-Zavaleta, and A.M. Rossignol, *Global climate change and its impact on disease embedded in ecological communities*. Environmental Geosciences, 2006. **13(1)**: p. 55.
243. Rosso, P.H., S.L. Ustin, and A. Hastings, *Use of lidar to study changes associated with *Spartina* invasion in San Francisco Bay marshes*. REMOTE SENSING OF ENVIRONMENT, 2006. **100(3)**: p. 295-306.
244. Sahu, S.K., A.E. Gelfand, and D. Holland, *High resolution space-time ozone modeling for assessing trends*. Journal of the American Statistical Association, 2006.
245. Sahu, S.K., A.E. Gelfand, and D.M. Holland, *Spatio-temporal modeling of fine particulate matter*. Journal of Agricultural, Biological, and Environmental Statistics, 2006. **11(1)**: p. 61-86.
246. Santelmann, M., et al., *Assessing effects of alternative agricultural practices on wildlife habitat in Iowa, USA*. Agriculture, ecosystems & environment, 2006. **113(1-4)**: p. 243-253.
247. Sather, M.E., et al., *Evaluation of short-term Ogawa passive, photolytic, and federal reference method sampling devices for nitrogen oxides in El Paso and Houston, Texas*. J Environ Monit, 2006. **8(5)**: p. 558-63.
248. Sgro, G.V., M.E. Ketterer, and J.R. Johansen, *Ecology and assessment of the benthic diatom communities of four Lake Erie estuaries using Lange-Bertalot tolerance values*. HYDROBIOLOGIA, 2006. **561**: p. 239-249.



249. Shure, D.J., D.L. Phillips, and P. Edward Bostick, *Gap size and succession in cutover southern Appalachian forests: an 18 year study of vegetation dynamics*. Plant Ecology, 2006. **185**(2): p. 299-318.
250. Sierszen, M.E., G.S. Peterson, and J.V. Scharold, *Depth-specific patterns in benthic-planktonic food web relationships in Lake Superior*. Canadian Journal of Fisheries and Aquatic Sciences, 2006. **63**(7): p. 1497-1503.
251. Smith, L.M., V.D. Engle, and J.K. Summers, *Assessing Water Clarity as a Component of Water Quality in Gulf of Mexico Estuaries*. Environmental Monitoring and Assessment, 2006. **115**(1): p. 291-305.
252. Stehman, S.V. and J.D. Wickham, *Assessing accuracy of net change derived from land cover maps*. Photogrammetric engineering and remote sensing, 2006. **72**(2): p. 175-185.
253. Sundberg, S.E., J.J. Ellington, and J.J. Evans, *A simple and fast extraction method for organochlorine pesticides and polychlorinated biphenyls in small volumes of avian serum*. Journal of chromatography. B, 2006. **831**(1-2): p. 99-104.
254. Tepolt, C.K., et al., *Characterization of microsatellite loci in the European green crab (Carcinus maenas)*. Molecular Ecology Notes, 2006. **6**: p. 343-345.
255. Tran, L.T., R.V. O'Neill, and E.R. Smith, *A Generalized Distance Measure for Integrating Multiple Environmental Assessment Indicators*. Landscape Ecology, 2006. **21**(4): p. 469-476.
256. Tzortziou, M., et al., *Bio-optics of the Chesapeake Bay from measurements and radiative transfer closure*. ESTUARINE COASTAL AND SHELF SCIENCE, 2006. **68**(1-2): p. 348-362.
257. Van Sickle, J., D.D. Huff, and C.P. Hawkins, *APPLIED ISSUES Selecting discriminant function models for predicting the expected richness of aquatic macroinvertebrates*. Freshwater Biology, 2006. **51**: p. 359-372.
258. Van Sickle, J., et al., *Using Relative Risk to Compare the Effects of Aquatic Stressors at a Regional Scale*. Environmental Management, 2006. **38**(6): p. 1020-1030.
259. Washington, J.W., et al., *Groundwater N speciation and redox control of organic N mineralization by O<sub>2</sub> reduction to H<sub>2</sub>O<sub>2</sub>*. Geochimica Et Cosmochimica Acta, 2006. **70**(14): p. 3533-3548.
260. Watrud, L.S., et al., *COMPARISON OF TAXONOMIC, COLONY MORPHOTYPE AND PCR-RFLP METHODS TO CHARACTERIZE MICROFUNGAL DIVERSITY*. Mycologia, 2006. **98**(3): p. 384-392.
261. Whipple, A.C., R.A. Luettich Jr, and H.E. Seim, *Measurements of reynolds stress in a wind driven Lagoonal Estuary*. OCEAN DYNAMICS, 2006. **56**(3-4): p. 169-185.
262. White, R.D., *DISPLAY OF PIXEL LOSS AND REPLICATION IN REPROJECTING RASTER DATA FROM THE SINUSOIDAL PROJECTION*. Geocarto International, 2006. **21**(2): p. 19-22.
263. Whiteside, T.S., S.H. Hilal, and L.A. Carreira, *Estimation of Phosphate Ester Hydrolysis Rate Constants. I. Alkaline Hydrolysis*. QSAR & combinatorial science(Print), 2006. **25**(2): p. 123-133.

264. Wickham, J.D., et al., *The effect of Appalachian mountaintop mining on interior forest*. Landscape Ecology, 2006.
265. Wickham, J.D., T.G. Wade, and L. Currey, *Statewide Empirical Modeling of Bacterial Contamination of Surface Waters*. Journal of the American Water Resources Association, 2006. **42**(3): p. 583-591.
266. Yang, L., et al., *DNA Damage And external lesions in brown bullheads from contaminated habitats*. Environ Toxicol Chem, 2006. **25**(11): p. 3035-3038.
267. Yang, X.J., *Estimating landscape imperviousness index from satellite imagery*. IEEE GEOSCIENCE AND REMOTE SENSING LETTERS, 2006. **3**(1): p. 6-9.
268. Yurista, P.M., J.R. Kelly, and S.E. Miller, *Comparisons of zooplankton community size structure in the Great Lakes*. Journal of Geophysical Research, 2006. **111**(C5).
269. Zegre, N.P., et al., *Subsurface nitrate transport in a mountain pasture*. Journal of Environmental Quality, 2006. **submitted**.
270. Beedlow, P.A., et al., *Bole water content shows little seasonal variation in century-old Douglas-fir trees*. Tree Physiol, 2007. **27**(5): p. 737-47.
271. Biers, E., R. Zepp, and M. Moran, *The Role of Nitrogen in Chromophoric and Fluorescent Dissolved Organic Matter Formation*. Marine Chemistry, 2007. **103**(1-2): p. 46-60.
272. Johnston, J., *Diversity Surfaces and Species Wave Fronts in a Soil Microarthropod Assemblage: Adding the Dimension of Time*. Pedobiologia, 2007. **50**(6): p. 527-533.
273. Miller, S.N., et al., *The Automated Geospatial Watershed Assessment tool*. Environmental Modelling & Software, 2007. **22**: p. 365-377.
274. Whittier, T.R., et al., *Fish and Amphibian Tolerance Values and an Assemblage Tolerance Index for Streams and Rivers in the Western USA*. Transactions of the American Fisheries Society, 2007. **136**(1): p. 254-271.
275. Peterson, G., et al., *Stable nitrogen isotopes of plankton and benthos reflect a landscape-level influence on Great Lakes coastal ecosystems*. Journal of Great Lakes Research, 2007, in press.

### Books and Book Chapters

1. Bilkovic, D.M., et al., *Evaluating nearshore communities as indicators of ecosystem health*. 2005. p. 365-380.
2. Bradford, D.F., *Factors implicated in amphibian population declines in the United States*, in *Declining Amphibians: A United States Response to the Global Problem*, M.J. Lannoo, Editor. 2005, University of California Press: Berkeley, CA.
3. Brooks, S., et al., *Transport Pathways and Processes Leading to Environmental Exposure*, in *2002 AMAP Assessment Report: Heavy Metals in the Arctic*. Arctic Monitoring and Assessment Programme. 2005: Oslo, Norway.
4. Brouwer, M., et al., *Molecular and organismal indicators of chronic and intermittent hypoxia in marine crustacea*. 2005. p. 261-276.
5. Burke, R.A. and J. Molinero, *Nitrate and Nitrous Oxide Concentrations in Small Streams of the Georgia Piedmont*, in *NATO/CCMS Pilot Study: Modeling Nutrient*

- Loads and Response in River and Estuary Systems*, R.C. Russo, Editor. 2005, NATO-CCMS: Brussels, Belgium. p. 79-89.
6. Denslow, N.D., I. Knoebl, and P. Larkin, *Approaches in proteomics and genomics for eco-toxicology*, in *Biochemistry and Molecular Biology of Fishes*, T.P. Mommsen and T.W. Moon, Editors. 2005, Elsevier Science: Amsterdam, Netherlands.
  7. Derome, J., et al., *Biological Effects*, in *2002 AMAP Assessment Report: Heavy metals in the arctic*. 2005, AMAP: Oslo, Norway.
  8. Fairbrother, A. and B. Hope, *TERRESTRIAL ECOTOXICOLOGY*, in *Encyclopedia of Toxicology*, P. Wexler, Editor. 2005, Elsevier Ireland Limited: Limerick, Ireland. p. 138-142.
  9. Haebler, R., *MARINE MAMMAL DISEASES: PATHOGENS AND PROCESSES*, in *Wildlife Diseases: Landscape Epidemiology, Spatial Distribution and Utilization of Remote Sensing Technology*, S. Majumbar, et al., Editors. 2005, The Pennsylvania Academy of Science. p. 330-344.
  10. Kepner, W.G., *Introduction*, in *Desertification in the Mediterranean Region. A Security Issue. NATO Security through Science Series*, W.G. Kepner, et al., Editors. 2005, Springer Publishers: Germany. p. 3-9.
  11. Kepner, W.G. and J.L. Rubio, *Forward*, in *Desertification in the Mediterranean Region. A Security Issue. NATO Security through Science Series*, W.G. Kepner, et al., Editors. 2005, Springer Publishers: Germany. p. xi-xiv.
  12. Kepner, W.G., et al., *Desertification in the Mediterranean Region. A Security Issue. NATO Security through Science Series*. Vol. 3. 2005, Germany: Springer Publishers. 605.
  13. Nash, M.S., et al., *Does Anthropogenic Activities or Nature Dominate the Shaping of the Landscape in the Oregon Pilot Study Area for 1990-1999?*, in *Desertification in the Mediterranean Region. A Security Issue. NATO Security through Science Series*, W.G. Kepner, et al., Editors. 2005, Springer Publishers: Germany. p. 305-323.
  14. Paerl, H.W., et al., *Using microalgal indicators to assess human-and climate-induced ecological change in estuaries*. 2005. p. 145-174.
  15. Peters, E., K. Price, and D. Horowitz, *HISTOLOGICAL PREPARATION OF INVERTEBRATES FOR EVALUATING CONTAMINANT EFFECTS*, in *Techniques in Aquatic Toxicology*, G. Ostrander, Editor. 2005, CRC Press Taylor & Francis Group, LLC: Boca Raton, FL. p. 653-686.
  16. Rakocinski, C.F. and G.A. Zapfe, *Macrobenthic process-indicators of estuarine condition*. 2005. p. 315-332.
  17. Suter 2nd, G.W., *An ecological risk assessor's view of environmental economics*, in *Economics and Ecological Risk Assessment: Applications to Watershed Management*, R.F. Bruins and M.T. Heberling, Editors. 2005, CRC Press: Boca Raton, FL.
  18. Vose, J.M., et al., *Restoration effects on N cycling pools and processes*, in *Restoration of Boreal and Temperate Forests*, J.A. Stanturf and P. Madsen, Editors. 2005, CRC Press: Boca Raton, FL. p. 77-94.
  19. With, K.A., *Landscape conservation: a new paradigm for the conservation of biodiversity*. 2005.

20. Cormier, S.M., *Ecoepidemiology: A Means to safeguard ecosystem services that sustain human welfare*, in *Ecotoxicology, Ecological Risk Assessment and Multiple Stressors*, Arapis, et al., Editors. 2006, Springer: Netherlands. p. 57-72.
21. Findlay, S., C. Wigand, and W. Nieder, *SUBMERSED MACROPHYTE DISTRIBUTION AND FUNCTION IN THE TIDAL FRESHWATER HUDSON RIVER*, in *The Hudson River Estuary*, J.S. Levinton and J.R. Waldman, Editors. 2006, Cambridge University Press: New York, NY. p. 230-241.
22. Groffman, P.M., et al., *Landscape and regional scale studies of nitrogen gas fluxes*. 2006.
23. Jarnagin, S., *An Overview of the Stressors and Ecological Impacts Associated with Regional and Global Patterns of Population, Land Use, and Land Cover Change*, in *Rates, Trends, Causes, and Consequences of Urban Land-Use Change in the United States*, W. Acevedo, et al., Editors. 2006, USGS: Corvallis, OR. p. 189-200.
24. Jennings, D.B. and S.T. Jarnagin, *Changes in Anthropogenic Impervious Surfaces, Precipitation and Daily Streamflow Discharge: A Historical Perspective in a Mid-Atlantic Subwatershed*, in *United States Geological Survey (USGS) Geographic Analysis & Monitoring (GAM) Urban Dynamics, Status & Trends Circular Report*, D. Hester, Editor. 2006, US Geological Survey: Denver, CO. p. 471-489.
25. Jones, K.B., et al., *Multiple scale relationships of landscape characteristics and nitrogen concentrations in streams*, in *Scaling and Uncertainty Analysis in Ecology: Methods and Applications*, J. Wu, et al., Editors. 2006, Springer-Verlag: The Netherlands. p. 205-224.
26. Jordan, S., *INDICATORS OF ECOSYSTEM HEALTH & BIOLOGICAL REFERENCE POINTS*, in *Fisheries Ecosystem Planning for Chesapeake Bay*. 2006, American Fisheries Society: Bethesda, MD. p. 237-251.
27. Law, B.E., et al., *Carbon fluxes across regions: Observational constraints at multiple scales*. 2006.
28. Whittier, T.R., et al., *Associations among catchment- and site-scale disturbance indicators and biological assemblages at least- and most-disturbed stream and river sites in the western United States*, in *American Fisheries Society Symposium*. 2006, American Fisheries Society. p. 641-664.
29. Wickham, J.D., et al., *Scaling nutrient export coefficients*, in *Scaling and Uncertainty Analysis in Ecology: Methods and Applications*, J. Wu, et al., Editors. 2006, Springer-Verlag: The Netherlands. p. 225-237.
30. Wu, J. and H. Li, *Concepts of scale and scaling*. 2006.
31. Scharold, J., S. Lozano, and T. Corry, *Status of benthic macroinvertebrates in southern nearshore Lake Superior, 1994-2003*, in *Ecovision World Monograph Series*. 2007, in press, Backhuys Publishers: Leiden, the Netherlands.
32. Yurista, P. and J. Kelly, *Spatial patterns of water quality and plankton from high-resolution continuous in situ sensing along a 537-km nearshore transect of western Lake Superior, 2004*, in *State of Lake Superior, Ecovision World Monograph Series*. 2007, in press, Backhuys Publishers: Leiden, the Netherlands.

## Reports

1. Allwine, K., et al., *SPRAYTRAN User's Guide: a GIS-Based Atmospheric Spray Droplet Dispersion Modeling System*. 2005, US EPA: Washington DC.
2. Blum, M.J., et al., *Internal Report: Integrated Ecological Assessments of Midwestern Watersheds Physical, Chemical and Landscape Influences on Genetic and Species Diversity of Stream Fishes*. 2005, US EPA: Washington DC.
3. Bradford, D.F., W.G. Kepner, and T. Sajwaj, *Develop Habitat Models for Several Vertebrate Species Across Nevada*. 2005, US EPA: Washington DC.
4. Cate, A., et al., *Agwa Design Documentation: Migrating to Arcgis and the Internet*. 2005, US EPA: Washington DC.
5. Duirk, S.E. and T. Collette, *Organophosphate Pesticide Degradation Under Drinking Water Treatment Conditions*. 2005, US EPA: Washington DC.
6. EPA, U., *WILDLIFE RESEARCH STRATEGY*. 2005, US EPA: Washington DC.
7. Exum, L., et al., *Estimating and Projecting Impervious Cover in the Southeastern United States*. 2005, US EPA: Washington DC.
8. Fellers, G., et al., *Experimental Translocation of Mountain Yellow-Legged Frogs (*Rana Muscosa*) in the Sierra Nevada Mountains of California*. 2005, US EPA: Washington DC.
9. Garofalo, D., *Remote Sensing Program for EPA, Fy2004 Program Summary*. 2005, US EPA: Washington DC.
10. Heggem, D.G. and E. Evenson, *Internal Report Landscape Metrics for EMAP-West*. 2005, US EPA: Washington DC.
11. Heggem, D.T., *EMAP-West Metric Browser*. 2005, US EPA: Washington DC.
12. Johnson, J., *HYDROGEOMORPHIC WETLAND PROFILING: AN APPROACH TO LANDSCAPE AND CUMULATIVE IMPACT ANALYSIS*. 2005, US EPA: Washington DC.
13. Jorgensen, E.E., et al., *Ecosystem Stress from Chronic Exposure to Low-levels of Nitrate*. 2005, US EPA, ORD: Washington, DC.
14. Kepner, W.G., et al., *Nevada Geospatial Data Browser*. 2005, US EPA: Washington DC.
15. Kraemer, S., H. Haitjema, and V. Kelson, *Working With WHAEM2000: Capture Zone Delineation for a City Wellfield in a Valley Fill Glacial Outwash Aquifer Supporting Wellhead Protection*. 2005, US EPA: Washington DC.
16. Lopez, R.D., *Draft Landsat Data Mosaic: Montgomery County, Texas; Harris County, Texas; Fort Bend County, Texas; Brazoria County, Texas; Galveston County, Texas*. 2005, US EPA: Washington DC.
17. Lopez, R.D., et al., *The Great Lakes Basin: Landscape Ecology Metric Data Browser (V2.0)*. 2005, US EPA: Washington DC.
18. Loux, N., *Modeling Monomethylmercury and Tributyltin Speciation With EPA's Geochemical Speciation Model MINTQA2*. 2005, US EPA: Washington DC.
19. Loux, N., S. Hassan, and C. Chafin, *Empirical Models of Pb and Cd Partitioning Using Data from 13 Soils, Sediments and Aquifer Materials*. 2005, US EPA: Washington DC.

20. Mayer, P.M., et al., *Riparian Buffer Width, Vegetative Cover, and Nitrogen Removal Effectiveness: A Review of Current Science and Regulations*. 2005, US EPA, ORD: Washington, DC.
21. Molina, M., *Temporal and Spatial Variability of Fecal Indicator Bacteria: Implications for the Application of MST Methodologies to Differentiate Sources of Fecal Contamination*. 2005, US EPA: Washington DC.
22. Nash, M.S., D. Chaloud, and R.D. Lopez, *Application of Canonical Correlation and Partial Least Square Analyses in Landscape Ecology*. 2005, US EPA: Washington DC.
23. Nelson, W., et al., *CONDITION OF ESTUARIES OF THE WESTERN UNITED STATES FOR 1999: A STATISTICAL SUMMARY*. 2005, US EPA: Washington DC.
24. Norton, S.B. and U. EPA, *The Causal Analysis/Diagnosis Decision Information System (CADDIS). External Review Draft*. 2005.
25. Norton, S.B. and U. EPA, *Predicting toxicity to amphipods from sediment chemistry*. 2005, National Center for Environmental Assessment: Washington DC.
26. Rossmann, R., *MICHTOX: A MASS BALANCE AND BIOACCUMULATION MODEL FOR TOXIC CHEMICALS IN LAKE MICHIGAN*. 2005, US EPA: Washington DC.
27. Spruill, T., et al., *Geochemistry and Characteristics of Nitrogen Transport at a Confined Animal Feeding Operation in a Coastal Plain Agricultural Watershed, and Implications for Nutrient Loading in the Neuse River Basin, North Carolina, 1999-2002. U.S. Geological Survey, Scientific Investigations Report*. 2005: Reston, VA. p. 66.
28. Suarez, L., *PRZM-3, a Model for Predicting Pesticide and Nitrogen Fate in the Crop Root and Unsaturated Soil Zones: User's Manual for Release 3.12.2*. 2005, US EPA: Washington DC.
29. Van Remortel, R.D., et al., *Automated GIS Watershed Analysis Tools for Rusle/Sedmod Soil Erosion and Sedimentation Modeling*. 2005, US EPA: Washington DC.
30. Wade, T.G. and D. Ebert, *Analytical Tools Interface for Landscape Assessments (Attila) User Manual*. 2005, US EPA: Washington DC.
31. Angradi, T., et al., *ENVIRONMENTAL MONITORING AND ASSESSMENT - GREAT RIVER ECOSYSTEMS PROGRAM (EMAP-GRE) GREAT RIVER ECOSYSTEMS FIELD OPERATIONS MANUAL*. 2006, EPA: Washington DC.
32. Anstead, A., *Primary production for the LM2-Toxic. Part 4, Appendix 4.5.5, in Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossman, Editor. 2006, USEPA: Grosse Ile, MI. p. 426-429.
33. Blocksom, K. and L. Winters, *The evaluation and development of a method for creating defensible, repeatable, objective and accurate tolerance values*. 2006, US EPA: Washington DC.
34. Blum, M., et al., *Internal Report: Influence of Genetic Adaptation on Global Change Forecasting With Special Reference to Global Change Scenarios for Marsh Plant Communities*. 2006, USEPA: Washington DC.

35. Burman, B. and K. Rygwelski, *Derivation of a hypothetical Lake Michigan lake trout fish consumption criteria for PCBs. Part 3, Appendix 3.4.1*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossman, Editor. 2006, USEPA: Grosse Ile, MI. p. 212-215.
36. Burns, L., *User Manual for EXPRESS, the EXAMS-PRZM Exposure Simulation Shell*. 2006, US EPA: Washington, DC.
37. Ebert, D., A.C. Neale, and D.G. Heggem, *Landscape Exposure Model Data Export Function to Support Patch*. 2006, US EPA: Washington DC.
38. Endicott, D., W. Richardson, and R. Rossmann, *PCBs modeling overview. Part 1, Chapter 2.*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 16-25.
39. Endicott, D.F., T.J. G. Gerstner, and K. Rygwelski, *Level 1 models. Part 3.*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossman, Editor. 2006, USEPA: Grosse Ile, MI. p. 183-211.
40. Feist, T. and K. Rygwelski, *Comparison of model results. Part 6.*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 544-551.
41. Garofalo, D., *Remote Sensing Program for EPA: Fy 2005 Program Summary*. 2006, US EPA: Washington DC.
42. Griesmer, D., *Information Management. Part 1, Chapter 3.*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 26-54.
43. Griesmer, D., *Congener pattern matching of data collected for the Lake Michigan Mass Balance Project (LMMBP). Part 1, Chapter 6*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 93-109.
44. Heggem, D.T., et al., *EMAP-West Metric Browser*. 2006, US EPA: Washington DC.
45. Heggem, D.T., et al., *Land Cover Conversions Estimated for Selected Ecoregions in the United States*. 2006, US EPA: Washington DC.
46. Hilal, S.H., *Estimation of Hydrolysis Rate Constants of Carboxylic Acid Ester and Phosphate Ester Compounds in Aqueous Systems from Molecular Structure By SPARC*. 2006, US EPA: Washington DC.
47. Johnston, J.M., *Watershed Health Assessment Tools Investigating Fisheries WHAT IF Version 2 a Manager's Guide to New Features*. 2006, US EPA: Washington DC.
48. Kelly, V. and J. Steven, *Ecologically-relevant quantification of streamflow regimes in western streams*. 2006, USEPA.
49. Kepner, W.G., et al., *Automated Geospatial Watershed Assessment (AGWA) Tool, Version 1.5*. 2006, US EPA: Washington DC.
50. Knightes, C.D. and R. Ambrose, *Development of An Ecological Risk Assessment Methodology for Assessing Wildlife Exposure Risk Associated With Mercury-Contaminated Sediments in Lake and River Systems*. 2006, US EPA: Washington DC.

51. Lattier, D.L., et al., *EPA Internal Report: Transfer of molecular diagnostic indicator technology to two EPA Regional laboratories, State of California, and one western tribe*. 2006, US EPA: Washington DC.
52. Levick, L., et al., *Simulated Changes in Runoff and Sediment in Developing Areas Near Benson, Arizona*. 2006, USEPA: Washington DC.
53. Lopez, R.D., et al., *Using Landscape Metrics to Develop Indicators of Great Lakes Coastal Wetland Condition*. 2006, US EPA: Washington DC.
54. Lopez, R.D., et al., *An Inventory and Assessment of Geographically Isolated Wetlands in the Texas Coastal Region: Initial Mapping and Accuracy Assessment*. 2006, US EPA: Washington DC.
55. Martin, J., *Comments as received from Dr. James Martin peer review summary: Lake Michigan Mass Balance Project. Part 7, Appendix 7.2*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 573-579.
56. McCarty, H., et al., *Project overview. Part 1, Chapter 1.*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 1-15.
57. Neale, A.C., et al., *National Landscape Atlas Produced from Early 1990s MRLC Data*. 2006, US EPA: Washington DC.
58. Pauer, J., K. Taunt, and W. Melendez, *LM3-Eutro. Part 2.*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 120-182.
59. Pitchford, A.M., *Midwestern Streams Modeled Using Landscape Metrics: Volume 1, Study Design and Methods*. 2006, US EPA: Washington DC.
60. Robinson, A.T., et al., *Ecological Assessment of Arizona's Streams and Rivers, 2000-2004*. 2006, Arizona Game and Fish Department. p. 52.
61. Rossmann, R., *PCBs in the Lake Michigan Ecosystem. Part 1, Chapter 5*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 66-92.
62. Rossmann, R., *Hindcasting and forecasting functions for PCBs in the Lake Michigan Ecosystem. Part 1, Chapter 7*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 110-119.
63. Rossmann, R., *Results of the Lake Michigan Mass Balance study: PCBs modeling report*. 2006, USEPA: Grosse Ile, MI.
64. Rossmann, R., et al., *Representativeness of LMMBP years relative to Lake Michigan's historic record. Part 1, Chapter 4*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 55-65.
65. Rygwelski, K., *Lake Michigan Mass Balance Project (LMMBP) peer review report. Part 7 Appendix 7.1*, in *Results of the Lake Michigan Mass Balance study: PCBs modeling report*, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 552-572.
66. Slonecker, E.T. and J.S. Tilley, *An Assessment of Impervious Surfaces Measurement Methods. Rates, Trends Causes and Consequences of Urban*



- Land-Use Change in the United States. USGS Professional Paper 1726. 2006, United States Geological Survey: Menlo Park, CA. p. 200.*
67. Stoddard, J.L., *MID-ATLANTIC INTEGRATED ASSESSMENT (MAIA) STATE OF THE FLOWING WATERS REPORT. 2006, US EPA: Washington DC.*
  68. Tilley, J., et al., *The Use of Spatial Analytical Techniques to Identify Potential Brownfields Sites, in USGS Status and Trends Report, C. Mladinich and S. Glayac, Editors. 2006, USGS: Corvallis, OR. p. 200.*
  69. Wagner, P., et al., *Regional Vulnerability Assessment for the Mid-Atlantic Region: Forecasts to 2020 and Changes in Relative Condition and Vulnerability. 2006, US EPA: Washington DC.*
  70. Walters, D., *Development of a fish index of biotic integrity to assess the condition of West Virginia Streams: Technical Support Document. 2006, US EPA: Washington DC.*
  71. Williams, D., *Verification of Portable Optical and Thermal Imaging Devices for Leak Detection at Petroleum Refineries and Chemical Plants. 2006, USEPA: Washington DC.*
  72. Woods, A., et al., *LEVEL III AND IV ECOREGIONS OF ILLINOIS. 2006, US EPA: Washington DC.*
  73. Xia, X., *Sample data interpolation for the LMMBP. Part 4, Appendix 4.4.1, in Results of the Lake Michigan Mass Balance study: PCBs modeling report, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 286-290.*
  74. Zhang, X., *LM2-Toxic. Part 4., in Results of the Lake Michigan Mass Balance study: PCBs modeling report, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 216-452.*
  75. Zhang, X., *LM food chain. Part 5., in Results of the Lake Michigan Mass Balance study: PCBs modeling report, R. Rossmann, Editor. 2006, USEPA: Grosse Ile, MI. p. 453-543.*
  76. Mehaffey, M. and E. Smith, *Reva Integrated Science for Targeted Decision-Making. 2007, USEPA: Washington DC.*

## **Conference Proceedings**

1. Faulkner, B.R., V.A. Murray, and S.R. Hobson. *Use of electrical resistivity probe for determination of hyporheic flow. in American Water Resources Association: 2005 Annual Water Resources Conference. 2005. Seattle, WA.*
2. Norton, S., S. Cormier, and G. Suter, *CADDIS: A System to Help Investigators Determine the Causes of Biological Impairments in Aquatic Systems, in TMDL 2005 Conference. 2005, Water Environment Federation, Alexandria: Philadelphia, PA.*
3. Faulkner, B.R. *Process Transfer Functions to Relate Stream Ecological Condition Metrics to Nitrate Retention. in 2006 Annual International Meeting of the American Society of Agricultural and Biological Engineers. 2006. Portland, OR.*
4. Nash, M. and R. Lopez, *Partial Least Squares (PLS) Regression for Small Sample With Collinear Predictors in Landscape Ecology, in 25th Annual Conference on Managing Environmental Quality Systems. 2006, USEPA: Austin, TX.*

5. Rashleigh, B., et al., *Watershed Health Assessment Tools-Investigating Fisheries (WHAT-IF): a Modeling Toolkit for Watershed and Fisheries Management*, in *iEMSs Third Biennial Meeting: Summit on Environmental Modelling and Software*. 2006, International Environmental Modelling and Software Society: Burlington VT.
6. Semmens, D.J., et al. *A Retrospective Analysis of Model Uncertainty for Forecasting Hydrologic Change*. in *International Environmental Modeling and Software Society*. 2006. Burlington, VT: International Society for Ecological Modeling.
7. Semmens, D.J., et al. *From Research to Management: A Suite of GIS-Based Watershed Modeling, Assessment and Planning Tools*. in *International Symposium on Environmental Software Systems*. 2006. Burlington, VT: International Environmental Modelling and Software Society.

## Maps

1. Daigle, J., et al., *Ecoregions of Louisiana*. 2006, USGS.
2. Griffith, G., et al., *Ecoregions of New Mexico*. 2006, USGS: Reston, VA.