

LEETOWN SCIENCE CENTER
FISCAL YEAR 2008 PUBLICATION LIST

08-001//FH

Starliper CE. 2008. General and specialized media routinely employed for primary isolation of bacterial pathogens of fishes. *Journal of Wildlife Diseases* 44(1):121-32.

Notes: Article

08-002//SAL

Ratnayeke S, van Manen FT, Pieris R, Prakash VSJ. 2007. Landscape characteristics of sloth bear range in Sri Lanka. *Ursus* 18(2):189-202.

Notes: Article

08-003//NF

Mather ME, Parrish DL, Campbell CA, McMenemy JR, Smith JM. 2008. Summer temperature variation and implications for juvenile *Atlantic salmon*. *Hydrobiologia* 603():183-96.

Notes: Article

08-004//FH//AE

Blazer VS, Iwanowicz LR, Iwanowicz DD, Smith DR, Young JA, Hedrick JD, Foster SW, Reeser SJ. 2007. Intersex (testicular oocytes) in smallmouth bass from the Potomac River and selected nearby drainages. *Journal of Aquatic Animal Health* 19(4):242-53.

Notes: Article

08-005//FH

Blazer VS, Ottinger CA , Densmore CL. 2007. Factors affecting fish health. Circular (U.S. Geological Survey)
USGS//Circular 1316:54-9.

Notes: Chapter

08-006//TF

Nilsen TO, Ebbesson LOE, Kiilerich P, Bjornsson BT, Madsen SS, McCormick SD, Stefansson SO. 2008. Endocrine systems in juvenile anadromous and landlocked Atlantic salmon, (*Salmo salar*): seasonal development and seawater acclimation. *General and Comparative Endocrinology* 155:762-72.
Notes: Article

08-007//TF

McCormick SD, Shrimpton JM, Moriyama S, Bjornsson BT. 2007. Differential hormonal responses of Atlantic salmon parr and smolt to increased daylength: a possible developmental basis for smolting . *Aquaculture* 273(2-3):337-44.
Notes: Article

08-008//GSM

Parker CR, Flint OSJr, Jacobus LM, Kondratieff BC, McCafferty WP, Morse JC. 2007. Ephemeroptera, Plecoptera, Megaloptera, and Trichoptera of Great Smoky Mountains National Park. *Southeastern Naturalist Special Issue* 1:159-74.
Notes: Article

08-009//TF

Mackie PM, Gharbi K, Ballantyne JS, McCormick SD, Wright PA. 2007. Na^+/K^+ /2C1⁻ cotransporter and CFTR gill expression after seawater transfer in smolts (0^+) of different Atlantic salmon (*Salmo salar*) families. *Aquaculture* 272(1-4):625-35.
Notes: Article

08-010//TF

Nilsen TO, Ebbesson LOE, Madsen SS, McCormick SD, Andersson E, Bjornsson BT, Prunet P, Stefansson SO. 2007. Differential expression of gill Na^+ , K^+ -ATPase α - and β -subunits, Na^+/K^+ /2C1⁻ cotransporter and CFTR anion channel in juvenile anadromous and landlocked Atlantic salmon, *Salmo salar*. *Journal of Experimental Biology* 210:2885-96.
Notes: Article

08-011//TF

Stefansson SO, Nilsen TO, Ebbesson LOE, Wargelius A, Madsen SS, Bjornsson BT, McCormick SD. 2007. Molecular mechanisms of continuous light inhibition of Atlantic salmon parr - smolt transformation. *Aquaculture* 273(2-3):235-45.
Notes: Article

08-012//FH

Panek FM, Bobo T. 2006. Zoonotic fish disease and adaptive fishery management: considerations for striped bass (*Morone saxatilis*) from the Chesapeake Bay. *Proceedings of the Annual Conference Southeastern Association of Fish and Wildlife Agencies* 60:140-4.
Notes: Article

08-013//TF

Letcher BH, Nislow KH, Coombs JA, O'Donnell MJ, Dubreuil TL. 2007. Population response to habitat fragmentation in a stream-dwelling brook trout population. *PLoS ONE* November(11):e1139.
Reprint: www.plosone.org
Notes: Article//Online only

08-014//TF

Monette MY, McCormick SD. 2008. Impacts of short-term acid and aluminum exposure on Atlantic salmon, (*Salmo salar*) physiology: a direct comparison of parr and smolts. *Aquatic Toxicology* 86(2):216-26.
Notes: Article

08-015//TF

Reis-Santos P, McCormick SD, Wilson JM. 2008. Ionoregulatory changes during metamorphosis and salinity exposure of juvenile sea lamprey (*Petromyzon marinus L.*). *Journal of Experimental Biology* 211():978-88.
Notes: Article

08-016//FH

McAllister PE. 2007. Infectious Pancreatic Necrosis [Section 2.6, Pages 1-9]. in. *Fish Health Section Blue Book//Suggested Procedures for the Detection and Identification of Certain Finfish and Shellfish Pathogens*. 2007 ed. Bethesda, Maryland: American Fisheries Society, Fish Health Section.
Notes: Chapter//CD-Rom

08-017//NF

Ross RM, Long ES, Dropkin DS. 2008. Response of macroinvertebrate communities to remediation-simulating conditions in Pennsylvania streams influenced by acid mine drainage. Environmental Monitoring and Assessment 145(1-3):323-38.

Notes: Article

08-018//FH

Wingard GL, Murray JB, Schill WB, Phillips EC. 2008. Red-rimmed melania (*Melanoides tuberculatus*) - A snail in Biscayne National Park, Florida - harmful invader or just a nuisance? Fact Sheet//U. S. Geological Survey//U. S. Department of the Interior 2008-3006:6.

Notes: Fact Sheet

08-019//NF

Lepak JM, Kraft CE, Honeyfield DC, Brown SB. 2008. Evaluating the effect of stressors on thiaminase activity in alewife. Journal of Aquatic Animal Health 20(1):63-71.

Notes: Article

08-020//NF

Honeyfield DC, Ross JP , Carbonneau DA, Terrell SP, Woodward AR, Schoeb TR, Perceval HF, Hinterkopf JP. 2008. Pathology, physiologic parameters, tissue contaminants, and tissue thiamine in morbid and healthy central Florida adult american alligators (*Alligator mississippiensis*). Journal of Wildlife Diseases 44(2):280-94.

Notes: Article

08-021//SAL//AE

Settlage KE, Van Manen FT, Clark JD, King TL. 2008. Challenges of DNA-based mark-recapture studies of American black bears. Journal of Wildlife Management 72(4):1035-42.

Notes: Article

08-022//TF

Nieves-Puigdoller K, Bjornsson BT, McCormick SD. 2007. Effects of hexazinone and atrazine on the physiology and endocrinology of smolt development in Atlantic salmon. Aquatic Toxicology 84(1):27-37.

Notes: Article

08-023//AE

Morrison CL, Eackles MS, Johnson RL, King TL. 2008. Characterization of 13 microsatellite loci for the deep-sea coral, *Lophelia pertusa* (Linnaeus 1758), from the western North Atlantic Ocean and Gulf of Mexico. Molecular Ecology Resources 8(5):1037-9.

Notes: Article

08-024//GSM

Robinson J, Parker CR, Sanders NJ. 2007. Aquatic insects inventoried in Appalachian Highlands and Cumberland Piedmont network parks. Natural Resource Year in Review --2006 2006():41-2.

Notes: Article

08-025//FH

Schill WB, Mathes MV. 2008. Real-time PCR detection and quantification of nine potential sources of fecal contamination by analysis of mitochondrial Cytochrome *b* targets. Environmental Science & Technology 42(14):5229-34.

Notes: Article//supporting documentation online

08-026//NF

Kocovsky PM, Ross RM, Dropkin DS, Campbell JM. 2008. Linking landscapes and habitat suitability scores for diadromous fish restoration in the Susquehanna River basin. North American Journal of Fisheries Management 28(3):906-18.

Notes: Article

08-027//NF

Kocovsky PM, Ross RM, Dropkin DS. 2008. Prioritizing removal of dams for passage of diadromous fishes on a major river system. River Research and Applications DOI:10.1002/rra.1094():n.p.

Notes: Article//Early Online

08-028//TF

Hiroi J, Yasumasu S, McCormick SD, Hwang PP, Kaneko T. 2008. Evidence for an apical Na-Cl cotransporter involved in ion uptake in a teleost fish. Journal of Experimental Biology 211:2584-99.

Notes: Article

08-029//TF

Stefansson SO, Bjornsson BT, Ebbesson LOE, McCormick SD. 2008. Smoltification [Pages 639-681]. in: Finn RN, Kapoor BG, editors. Fish Larval Physiology . Enfield, NH: Science Publishers.

Notes: Chapter

08-030//FH

Ripley J, Iwanowicz L, Blazer V, Foran C. 2008. Utilization of protein expression profiles as indicators of environmental impairment of smallmouth bass (*Micropterus dolomieu*) from the Shenandoah River, Virginia, USA. Environmental Toxicology and Chemistry 27(8):1756-67.

Notes: Article

08-031//TF

Carlson SM, Hendry AP, Letcher BH. 2007. Growth rate differences between resident native brook trout and non-native brown trout. Journal of Fish Biology 71(5):1430-47.

Notes: Article

08-032//TF

Pearlstein JH, Letcher BH, Obedzinski M. 2007. Early discrimination of Atlantic salmon smolt age: time course of the relative effectiveness of body size and shape. Transactions of the American Fisheries Society 136(6):1622-32.

Notes: Article

08-033//TF

Coombs JA, Letcher BH, Nislow KH. 2008. CREATE: a software to create input files from diploid genotypic data for 52 genetic software programs. *Molecular Ecology Resources* 8(3):578-80.
Notes: Article

08-034//RT

Watten BJ, Mudrak VA, Echevarria C, Sibrell PL, Summerfelt ST, Boyd CE. 2008. Effect of HRT and PCO₂ on the performance of a fluidized bed limestone reactor designed for alkalinity enhancement at the Warm Springs Regional Fisheries Center. *Proceedings of the Seventh International Conference on Recirculating Aquaculture; 2008 Jul 25-2008 Jul 27; Roanoke, Virginia.* p Pages 388-403.
Notes: Conference Paper//CD-ROM

08-035//FH

Rogers CS, Miller J, Muller EM, Edmunds P, Nemeth RS, Beets JP , Friedlander AM, Smith TB, Boulon R, Jeffrey CFG and others. 2008. Ecology of coral reefs in the US Virgin Islands [Pages 303-373]. in: Riegl BM, Dodge RE, editors. *Coral Reefs of the USA.* New York, NY: Springer Science+Business Media B. V.
Notes: Chapter

08-036//FH//AE

Kozar MD, McCoy KJ, Weary DJ, Field MS, Pierce HA, Schill WB, Young JA. 2007. Hydrogeology and water quality of the Leetown area, West Virginia. Open File Report (U. S. Geological Survey) 2007-1358:100pp//Appendices (6).
Reprint: <http://pubs.er.usgs.gov/usgspubs/ofr/ofr20071358>
Notes: Report//Online only

08-037//AE

Mayden RL, Wood RM, Lang NJ, Dillman CB, Switzer JF. 2006. Phylogenetic relationships of species of the darter genus *Etheostoma* (perciformes: percidae): evidence from parsimony and bayesian analyses of mitochondrial cytochrome B sequences. [Pages 20-39]. in: Lozano Vilano MDL, Contreras Balderas AJ, editors. *Studies of North American desert fishes in honor of E. P. (Phil) Pister, conservationist.* Monterrey: Universidad Autonoma de Nuevo Leon.
Notes: Chapter

08-038//TF

Scace JG, Letcher BH, Noreika J. 2007. An efficient smolt trap for sandy and debris-laden streams. *North American Journal of Fisheries Management* 27(4):1276-86.
Notes: Article

08-039//TF

Sigourney DB, Letcher BH, Obedzinski M, Cunjak RA. 2008. Size-independent growth in fishes: patterns, models and metrics. *Journal of Fish Biology* 72(10):2435-55.
Notes: Article

08-040//NF

Honeyfield DC, Kehler T, Fletcher JW, Mohler JW. 2008. Effect of artificial sunlight on the retention of external calcein marks on lake trout. *North American Journal of Fisheries Management* 28(4):1243-8.
Notes: Article

08-041//RT

Sibrell PL. 2007. Method of removing phosphorus from wastewater. United States Patent 7,294,275 B1.
Notes: Patent

08-042//TF

Monette MY, Bjornsson BT, McCormick SD. 2008. Effects of short-term acid and aluminum exposure on the parr-smolt transformation in Atlantic salmon (*Salmo salar*): Disruption of seawater tolerance and endocrine status. General and Comparative Endocrinology 158:122-30.
Notes: Article

08-043//TF

McCormick SD, Regish A , O'Dea MF, Shrimpton JM. 2008. Are we missing a mineralocorticoid in teleost fish? Effects of cortisol, deoxycorticosterone and aldosterone on osmoregulation, gill Na⁺, K⁺-ATPase activity and isoform mRNA levels in Atlantic salmon. General and Comparative Endocrinology 157:35-40.
Notes: Article

08-044//TF

Poppinga J, Kittilson J, McCormick SD, Sheridan MA. 2007. Effects of somatostatin on the growth hormone-insulin-like growth factor axis and seawater adaption of rainbow trout (*Oncorhynchus mykiss*). Aquaculture 273:312-9.
Notes: Article

08-045//TF

O'Donnell MJ, Letcher BH. 2008. Size and age distributions of juvenile Connecticut river American shad above Hadley Falls: Influence on outmigration representation and timing. River Research and Applications 24:929-40.
Notes: Article

08-046//FH

Hinck JE, Blazer VS, Denslow ND, Echols KR , Gale RW, Wieser C, May TW, Ellersieck M, Coyle JJ, Tillitt DE. 2008. Chemical contaminants, health indicators, and reproductive biomarker responses in fish from rivers in the southeastern United States. Science of the Total Environment 390:538-57.
Notes: Article

08-047//FH

Iwanowicz LR, Iwanowicz DD, Pote LM, Blazer VS, Schill WB. 2008. Morphology and 18S rDNA of *Henneguya gurlei* (Myxosporea) from *Ameiurus Nebulosus* (Siluriformes) in North Carolina. Journal of Parasitology 94(1):46-57.
Notes: Article

08-048//AE//

Ludwig A, Arndt U, Lippold S, Benecke N, Debus L, King TL, Matsumura S. 2008. Tracing the first steps of American sturgeon pioneers in Europe. BMC Evolutionary Biology 8():221- .
Reprint: www.biomedcentral.com/1471-2148/8/221
Notes: Article//Online Only

08-049//AE

Brown JA, Salehi M M, Moradi M, Bell G, Smith DR. 2008. An adaptive two-stage sequential design for sampling rare and clustered populations. *Population Ecology* 50():239-45.
Notes: Article

08-050//AE

Diffenbach DR, Long ES , Rosenberry CS, Wallingford BD, Smith DR. 2008. Modeling distribution of dispersal distances in male white-tailed deer. *Journal of Wildlife Management* 72(6):1296-303.
Notes: Article

08-051//AE

Morrison LW, Smith DR, Young CC, Nichols DW. 2008. Evaluating sampling designs by computer simulation: a case study with the Missouri bladderpod. *Population Ecology* DOI 10.1007/s10144-008-0100-x:n.p.
Notes: Article//Early Online

08-052//FH

Starliper CE. 2008. Recovery of a fish pathogenic bacterium, *Aeromonas salmonicida* , from ebonyshell mussels *Fusconaia ebena* using nondestructive sample collection procedures. *Journal of Shellfish Research* 27(4):775-82.
Notes: Article

08-053//TF

Horton GE, Letcher BH. 2008. Movement patterns and study area boundaries: influences on survival estimation in capture-mark-recapture studies. *Oikos* 117():1131-42.
Notes: Article

08-054//TF

Letcher BH, Horton GE. 2008. Seasonal variation in size-dependent survival of juvenile Atlantic salmon (*Salmo salar*): performance of multistate capture-mark-recapture models. *Canadian Journal of Fisheries and Aquatic Sciences* 65(8):1649-66.
Notes: Article

08-055//AE

Jackson NL, Smith DR, Nordstrom KF. 2008. Physical and chemical changes in the foreshore of an estuarine beach: implications for viability and development of horseshoe crab *Limulus polyphemus* eggs. *Marine Ecology Progress Series* 355():209-18.
Notes: Article

08-056//RT

Sibrell PL, Tucker TW, Kehler T, Fletcher JW. 2008. Removal of phosphorus from wastewater using ferroxsorb sorption media produced from AMD sludge. in. *Hydrometallurgy 2008 - Proceedings of the Sixth International Symposium* ; 2008 Aug 17-2008 Aug 20; Phoenix, Arizona.
Notes: Conference Paper

08-057//FH

Schill WB. 2008. Expressed genes of the deep-water coral, *Lophelia pertusa*. Open File Report (U. S. Geological Survey) 2008-1148:5.1 - 5.22.
Notes: Chapter

08-058//AE

Morrison CL, Johnson RL, King TL, Ross SW, Nizinski MS. 2008. Molecular assessment of deep-sea scleractinian coral biodiversity and population structure of *Lophelia pertusa* in the Gulf of Mexico. Open File Report (U. S. Geological Survey) 2008-1148:4.1 - 4.77.
Notes: Chapter