

## Appendix A.

### List of ACE INC publications over the entire project period

#### 2002

- Buzzelli, C.P., S. P. Powers, R. A. Luettich Jr., J. E McNinch, C.H. Petereson, J.L. Pinckney and H.W. Paerl. 2002. Estimating the spatial extent of bottom water hypoxia and benthic fishery habitat degradation in the Neuse River Estuary, NC. *Mar. Ecol. Progr. Ser.* 230:103-112.  
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- Harding, L.W., Jr., M.E. Mallonee, and E.S. Perry. 2002. Toward a predictive understanding of primary productivity in a temperate, partially stratified estuary. *Estuar. Coast. Shelf Sci.* 55, 47-46.  
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- Luettich, R.A., Jr., S.D. Carr, J.V. Reynold-Fleming, C.W. Fulcher and J.E. McNinch. 2002. Semi-diurnal seiching in a shallow, micro-tidal lagoonal estuary. *Continental Shelf Research*, 22:1669-1681.  
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- Morris, J.T. 2002. Present status and future trends in estuarine and watershed monitoring using remote sensing technology, Jan 7-8. Sci. & Tech. Advisory Comm., Chesapeake Bay Program, Annapolis, MD.
- Morris, J.T., P.V. Sundareshwar, C.T. Nietch, B. Kjerfve, D.R. Cahoon. 2002. Responses of coastal wetlands to rising sea level. *Ecology* 83:2869-2877.  
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- Paerl, H. W. (2002). Primary Productivity and Producers. Pp. 329-341, In C. J. Hurst (ed.) *Manual of Environmental Microbiology* (2<sup>nd</sup> Ed.). ASM Press, Washington, DC.
- Paerl, H.W. 2002. Connecting atmospheric deposition to coastal eutrophication. *Environ. Sci. Technol.* 36, No.15:323A-326A.  
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- Paerl, H.W, R. L. Dennis and D. R. Whitall. 2002. Atmospheric deposition of nitrogen: Implications for nutrient over-enrichment of coastal waters. *Estuaries* 25:677-693.  
Filename: **Paerl estuarine ADN 2002.pdf**
- Paerl, H.W. J. Dyble, L. Twomey, J. L. Pinckney, J. Nelson and L. Kerkhof. 2002. Characterizing man-made and natural modifications of microbial diversity and activity in coastal ecosystems: *Antonie van Leeuwenhoek* 81:487-507.  
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- Paerl, H.W. and J. Kuparinen. 2002. Microbial aggregates and consortia. In: G. Bitton (Ed). *Encyclopedia of Environmental Microbiology*, Vol. 1, p. 160-181. John Wiley and Sons, Inc. New York, NY.  
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Piebler, M.F., J. Dyble, P.H. Moisander, J.L. Pinckney and H.W. Paerl. 2002. Effects of modified nutrient concentrations and ratios on the structure and function of the native phytoplankton community in the Neuse River Estuary, North Carolina USA. *Aquat. Ecol.* 36: 371-385.

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Reynolds-Fleming, J.V., J.G. Fleming, and R.A. Luetlich. 2002. Portable autonomous vertical profiler for estuarine applications", *Estuaries*, 25(1):142-147.

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## **2003**

Buzzelli, C.P., Ramus, J.R. and Paerl, H.W. 2003 Ferry-based monitoring of surface water quality in North Carolina estuaries. *Estuaries* 26:975-984.

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Cavatorta, J. M. Johnston, C. Hopkinson, and V. Valentine. 2003. Patterns of sedimentation in a salt marsh-dominated estuary. *Biological Bulletin* 205: 239-241.

Johnston, M. E., J. R. Cavatorta, C. S. Hopkinson, and V. Valentine. 2003. Importance of metabolism in the development of salt marsh ponds. *Biological Bulletin* 205: 248-249.

Paerl, H.W., J. Dyble, P.H. Moisander, R.T. Noble, M.F. Piebler, J.T. Pinckney, L. Twomey and L.M. Valdes. 2003. Microbial Indicators of Aquatic Ecosystem Change: Current Applications to Eutrophication Studies. *FEMS Microbial Ecology* 46 (3):233-246.

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Paerl, H.W., T.F. Steppe, K.C. Buchan and M. Potts. 2003. Hypersaline cyanobacterial mats as indicators of elevated tropical hurricane activity and associated climate change. *Ambio* 32:87-90.

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Paerl, H.W., L.M. Valdes, J.L. Pinckney, M.F. Piebler, J. Dyble and P.H. Moisander. 2003. Phytoplankton photopigments as Indicators of Estuarine and Coastal Eutrophication. *BioScience* 53(10) 953-964.

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## 2004

- Gallegos, C.L. and P.D. Biber, Setting Water Quality Targets for Restoration of Submerged Aquatic Vegetation. *Ecological Restoration* 22(4):2004.  
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- Irlandi, E.A., B.A.Orlando, and P.D. Biber, Drift Algae-Epiphyte-Seagrass Interactions in a Subtropical *Thalassia testudinum* Meadow. *Mar. Ecol. Progr. Ser.* 279:81-91. 2004.
- Christian, R. R., J. E. O'Neal, B.Peierls, L.M. Valdes, and H. W. Paerl. 2004. Episodic Nutrient Loading Impacts on Eutrophication of The Southern Pamlico Sound: The Effects of the 1999 Hurricanes. UNC Water Resources Research Institute Report No. 349, UNC Water Resources Research Institute, Raleigh, NC.  
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- Fear, J. T. Gallo, N.Hall, J. Loftin and H. Paerl. 2004. Predicting benthic microalgal oxygen and nutrient flux responses to a nutrient reduction management strategy for the eutrophic Neuse River Estuary, North Carolina, USA. *Estuarine and Coastal Shelf Science* 61:491-506.  
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- Gallegos, C.L. and P.D. Biber. 2004. Setting Water Quality Targets for Restoration of Submerged Aquatic Vegetation. *Ecological Restoration* 22(4).
- Jung, S. and E. D. Houde. 2004. Production of bay anchovy *Anchoa mitchilli* in Chesapeake Bay: application of size-based theory. *Mar. Ecol. Prog. Ser.* 281, 217-232.  
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- Kimmel, D.G. and M.R. Roman 2004. Long-term trends in mesozooplankton abundance in Chesapeake Bay USA: influence of freshwater input. *Mar. Ecol. Prog. Ser.* 267: 71-83.  
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- Magnuson, A., L.W. Harding, Jr., J.E. Adolf, and M.E. Mallonee. 2004. Bio-optical model for Chesapeake Bay and the middle Atlantic bight. *Estuar. Coast. Shelf Sci.* 61, 403-424.  
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- Morris, J.T. 2004. Responses of tidal salt marshes to changes in mean sea level. Submitted to the Third International Conference on Invasive *Spartina* Proceedings.
- Niemi, G., D. Wardrop, R. Brooks, S. Anderson, V. Brady, H. Paerl, C. Rakocinski, M. Brouwer, B. Levinson, and M. McDonald. 2004. Rationale for a new generation of indicators for coastal waters. *Environmental Health Perspectives* 112:979-986.  
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- Novakowski, K.I., R. Torres, LR Gardner, 2004. Geomorphic analysis of tidal creek networks, 2004, *Water Resources Research*, 40(5) W05401 13pp.
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Boicourt, W.C. 2005. Physical response of Chesapeake Bay to hurricanes moving to the wrong side. In: K.G. Sellner (ed.), *Hurricane Isabel in Perspective*. Chesapeake Research Consortium, CRC Publication 05-160, Edgewater, Maryland, p. 39-48.

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Kemp, W.M, W.R. Boynton, J.E. Adolf, D.F. Boesch, W.C. Boicourt, G. Brush, J.C. Cornwell, T.R. Fisher, P.M. Glibert, L.W. Harding, Jr., E.D. Houde, D.G. Kimmel, W.D. Miller, R.I.E. Newell, M.R. Roman, E.M. Smith, and J.C. Stevenson. 2005. Eutrophication of Chesapeake Bay: Historical trends and ecological interactions. *Mar. Ecol. Progr. Ser.* 303, 1-29.

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## **2006**

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