

## **CURRICULUM VITAE**

Richard L. Iverson  
Department of Earth, Ocean and Atmospheric Sciences  
Florida State University  
Tallahassee, FL 32306-4320  
iverson@ocean.fsu.edu

### **Professional Experience:**

Professor Emeritus of Oceanography, June 2008  
Professor of Oceanography, Florida State University 1983 - 2008  
Director Florida State University Marine Laboratory 2001 – 2005  
Florida State University SeaGrant Coordinator 2001 – 2005  
Associate Professor of Oceanography, Florida State University 1977 - 1983  
Assistant Professor of Oceanography, Florida State University 1972 – 1977  
Doctor of Philosophy, Oregon State University, Corvallis, 1972  
Master of Science, Oregon State University, Corvallis, 1968  
Bachelor of Science, Iowa State University, Ames 1965

### **Professional Publications**

#### **Phytoplankton Physiology and Related Topics**

Patten, B.C. and **R.L. Iverson**. 1966. Photosynthesis and uptake of Strontium-85 in freshwater plankton. *Nature* 211:96-97.

**Iverson, R.L.** and H.C. Curl, Jr. 1973. Action spectrum of photosynthesis of *Skeletonema costatum* obtained with carbon 14. *Physiologia Plantarum* 28:498-502.

Myers, V.B., **R.L. Iverson**, and R.C. Harriss. 1975. Salinity and dissolved organic matter effects on surface charge characteristics of selected euryhaline phytoplankton. *Journal of Experimental Marine Biology and Ecology* 17:59-68.

**Iverson, R.L.**, H.F. Bittaker, and V.B. Myers. 1976. Loss of radiocarbon in direct use of Aquasol for liquid scintillation counting of solutions containing  $^{14}\text{C} - \text{NaHCO}_3$ . *Limnology and Oceanography* 21:756-758.

DiDomenico, D.A. and **R.L. Iverson**. 1977. Uptake of glycolic acid by a marine bivalve. *Journal of Experimental Marine Biology and Ecology* 28:243-245.

**Iverson, R.L.**, K.C. Burdin, V. Maximov, and M. Lymin. 1978. Intercalibration of carbon-14 phytoplankton productivity measurement methods. Report of the Joint American-Soviet Expedition on the Scientific Research Vessel Moscow University for the Hydrobiological Analysis of Aquatic Ecosystems, Proceedings of a Joint U.S.-U.S.S.R. Hydrobiological Seminar, Gulf Breeze, Florida, September, 1976, pp. 156-162. (Invited Paper).

Vairavamuthy, A., M.O. Andreae, and **R.L. Iverson**. 1985. Biosynthesis of dimethylsulfide and dimethylpropiothetin by *Hymenomonas carterae* in relation to sulfur source and salinity variations. *Limnology and Oceanography* 30:59-70.

**Iverson, R.L.**, F.L. Nearhoof, and M.O. Andreae. 1989. Production of Dimethylsulfonium propionate and dimethylsulfide by marine phytoplankton. *Limnology and Oceanography* 34:53-67.

R. E. McCown, F. B. Gross, **R. L. Iverson**, D. L. Lambert, and M.I. Latz Exploring the Effect of Electromagnetic Fields on Dinoflagellate Bioluminescence. Proceedings of IEE Conference, 2005. pp. 1 – 4.

### **Publications Related to Estuarine Processes**

**Iverson, R.L.**, H.C. Curl, Jr., H.B. O'Connors, Jr., D. Kirk, and K. Zakar. 1974. Summer phytoplankton blooms in Auke Bay, Alaska driven by wind-mixing of the water column. *Limnology and Oceanography* 19:271-278.

**Iverson, R.L.**, H.C. Curl, Jr., and J.L. Saugen. 1974. Simulation model for wind-driven summer phytoplankton dynamics in Auke Bay, Alaska. *Marine Biology* 28:169-177.

Livingston, R.J., **R.L. Iverson**, R.H. Estabrook, V.E. Keys, and J. Taylor, Jr. 1974. Major features of the Apalachicola Bay System: Physiography, biota, and resource management. *Journal of the Florida Academy of Sciences* 37:245-271. (Invited Paper).

Bowman, M. and **R.L. Iverson**. 1978. Estuarine and plume fronts. In: Bowman, M. and W.E. Esaias, eds. *Oceanic Fronts in Coastal Processes*. Springer-Verlag, pp. 87-104. (Invited Paper).

Myers, V.B. and **R.L. Iverson**. 1977. Aspects of nutrient limitation of phytoplankton productivity in the Apalachicola Bay system. Proceedings of a Conference on the Apalachicola Drainage System. Florida Marine Research Publications No. 26, Florida Department of Natural Resources, pp. 68 -74. (Invited Paper).

Pennock, J.R., J.N. Boyer, J.A. Herrera-Silveira, **R.L. Iverson**, T. Whitley, B. Mortazavi, and F.A. Comin. 1999. Nutrient Behavior and phytoplankton production in Gulf of Mexico Estuaries. In : Pennock, J.R. and R. Twilley, eds. *Biogeochemistry of Gulf of Mexico Estuaries*, John Wiley & Sons. Pp. 109-162.

Mortazavi, B., **R. L. Iverson**, F. G. Lewis III, W. Huang, and J.M. Caffrey. 2000. Nitrogen Budget for Apalachicola Bay, USA. *Marine Ecology Progress Series*. 195: 1-14.

Mortazavi, B., **R. L. Iverson**, F. G. Lewis III, and W. Huang. 2000. Control of Phytoplankton Biomass and Production in Apalachicola Bay, Fl, USA. *Marine Ecology Progress Series*, 198: 19-31.

Mortazavi, B., **R. L. Iverson**, W. M. Landing, and W. Huang. 2000. Phosphorus Budget for Apalachicola Bay, USA. *Marine Ecology Progress Series*, 198: 33-42.

Mortazavi, B., **R. L. Iverson**, and W. Huang. 2001. The spatial distribution of nitrate and dissolved organic nitrogen in a bar-built estuary: Apalachicola Bay, Florida. *Marine Ecology Progress Series*, 214: 79-91.

J.N. Putland and **R.L. Iverson**. 2007. Ecology of *Acartia tonsa* in Apalachicola Bay and Implications of River Water Diversion. *Marine Ecology Progress Series* 340: 173-187.

J.N. Putland and **R.L. Iverson**. 2007. Microzooplankton: major herbivores in an economically and ecologically important estuary (Apalachicola Bay, Florida). *Marine Ecology Progress Series* 345: 63-73.

J.N. Putland and **R.L. Iverson**. 2007. Phytoplankton biomass in a subtropical estuary: distribution, size composition, and carbon: Chlorophyll ratios. *Estuaries and Coasts* 30: 879-886.

### **Publications Related to Seagrasses in Coastal Ocean Environments**

Bittaker, H.F. and **R.L. Iverson**. 1976. *Thalassia testudinum* productivity: A field comparison of measurement methods. *Marine Biology* 37:39-46.

Savastano, K.J., K.H. Faller, and **R.L. Iverson**. 1984. Submerged vegetation coverage in St. Joseph Bay, Florida estimated with an airborne multispectral scanner. *Photogrammetric Engineering and Remote Sensing* **50**:1159-1170.

Zieman, J.C., **R.L. Iverson**, and J.C. Ogden. 1984. Herbivory effects on *Thalassia testudinum* leaf growth and nitrogen content. *Marine Ecology Progress Series* **15**:151-158.

**Iverson, R.L.** and H.F. Bittaker. 1986. Seagrass distribution in the eastern Gulf of Mexico. *Estuarine, Coastal and Shelf Science*. **22**:577-602.

Moriarty, D.J.W., **R.L. Iverson**, and P.C. Pollard. 1986. Exudation of organic carbon by the seagrass *Halodule wrightii* Aschers. and its effects on bacterial growth in the sediment. *Journal of Experimental Marine Biology and Ecology*. **96**:115-126.

Morse, J.W., J.J. Zullig, **R.L. Iverson**, G.R. Choppin, A. Mucci, and F.J. Millero. 1987. The influence of seagrass beds on the chemistry of coarse-grained carbonate sediments in the Bahamas. *Marine Chemistry* **22**:71-83.

Zieman, J.C., J.W. Fourqurean, and **R.L. Iverson**. 1989. The distribution and abundance of seagrasses in Florida Bay. *Bulletin of Marine Science* **44**:292-311.

Rutkoswski, C.M., J.P. Chanton, W.C. Burnett, and **R.L. Iverson**. 1999. Groundwater seepage, nutrients, and seagrasses in the Northeastern Gulf of Mexico. *Estuaries* **22**:1033-1040.

### **Publications Related to Phytoplankton in Coastal Ocean Environments**

**Iverson, R.L.**, T.E. Whitley, and J.J. Goering. 1979. Chlorophyll and nitrate fine structure in the southeastern Bering Sea shelf break front. *Nature* **281**:644-666.

**Iverson, R.L.**, L.K. Coachman, R.T. Coonery, T.S. English, J.J. Goering, G.L. Hunt, Jr., M.C. McAulay, C.P. McRoy, W.S. Reeburgh, and T.E. Whitley. 1979. Ecological significance of fronts in the southeastern Bering Sea. In: Livingston, R.J., ed. *Ecological Processes in Coastal and Marine Systems*. Plenum Press. pp. 437-466. (Invited Paper).

Goering, J. J. and **R.L. Iverson**. 1981. Phytoplankton distribution on the southeast Bering Sea shelf. In: Hood, D.W., ed. *Proceedings of a Symposium on Oceanography and Resources of the Bering Sea shelf*. NOAA Office of Marine Pollution Assessment. Vol. 2:933-946. (Invited Paper).

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development of the spring plankton bloom on the southeast Bering Sea middle shelf. *Continental Shelf Research*. **18**:161-198.

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Eslinger, D.L., J.J. O'Brien and **R.L. Iverson**. 1989. Empirical orthogonal function analysis of cloud-containing coastal zone color scanner images of northeastern North American coastal waters. *Journal of Geophysical Research* **94**:10,884-10,890.

Eslinger, D.L. and **R.L. Iverson**. 2001. The effects of convective and wind-driven mixing on springtime phytoplankton dynamics in the southeastern Bering Sea Middle Shelf Domain. *Continental Shelf Research*, **21**: 627-650.

### **Publications Related to Open Ocean Biogeochemical Processes**

**Iverson, R.L.** 1977. Mesoscale oceanic phytoplankton patchiness caused by hurricane effects on nutrient distribution in the Gulf of Mexico: In: Anderson, N.R. and B.J. Zahuranec, eds. Oceanic Sound Scattering Prediction. Plenum Press, pp. 767-778. (Invited Paper).

**Iverson, R.L.** 1978. Use of biological indicators for monitoring effects of pollutants on the marine environment. Proceedings of a Joint U.S.-U.S.S.R. Hydrobiological Seminar, Gulf Breeze, Florida, September, 1976, pp. 95-106. (Invited Paper).

**Iverson, R.L.** 1990. Control of marine fish production. *Limnology and Oceanography* **35**:1593-1604.

Thompson, A.M., W.E. Esaias and **R.L. Iverson**. 1990. Two approaches to determining the sea-to-air flux of dimethyl sulfide: Satellite ocean color and a photochemical model with atmospheric measurements. *Journal of Geophysical Research* **95**:20,551-20,558.

Berresheim, H., M.O. Andreae, **R.L. Iverson** and S.M. Li. 1991. Seasonal variations of dimethylsulfide emissions and atmospheric sulfur and nitrogen species over the western north Atlantic Ocean. *Tellus* **43B**:353-372.

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**Iverson, R. L.**, W.E. Esaias, and K. Turpie. 2000. Ocean phytoplankton total carbon and new production, and export production estimated with empirical equations and CZCS data. *Global Change Biology* **6**: 57-72. A publication selected as among the best papers produced with the last 50 years of National Science Foundation funding for Ocean Science: R.T.Barber and K. Hilting. Achievements in Biological Oceanography. 2000. In. 50 Years of Ocean Discovery, National Science Foundation 1950-2000. Ocean Studies Board, National Research Council, National Academy Press, Washington D.C. pp.11 – 21.

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Comparison of algorithms for estimating ocean primary productivity from surface chlorophyll, temperature, and irradiance. *Global Biogeochemical Cycles*, **16**: 1029-1037.

Dewar, W.K., R.J. Bingham, **R.L. Iverson**, D. P. Nowacek, L. C. St. Laurent, and P. H. Wiebe. 2002. Does the Marine Biosphere Mix the Ocean? *Journal of Marine Research* 64: 541-561.