

Richard F. Ambrose

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### Professional Preparation

University of California, Irvine	Biological Sciences	B.S., 1975
University of California, Los Angeles	Ecology	Ph.D., 1982
Simon Fraser University	Marine Ecology	Postdoctoral Fellow, 1983-84

### Appointments:

1992-present Associate Professor (1992-2000) and Professor, Environmental Science and Engineering Program and Department of Environmental Health Sciences, UCLA  
1998-present Director, Environmental Science and Engineering Program, UCLA  
1985-1992 Assistant/Associate Research Biologist, Marine Science Institute, University of California, Santa Barbara

### Publications (select recent publications):

- Stein, E.D. and R.F. Ambrose. 1998. Cumulative impacts of Section 404 Clean Water Act permitting on the riparian habitat of the Santa Margarita, CA watershed. *Wetlands* 18: 379-392.
- Stein, E.D. and R.F. Ambrose. 1998. A rapid impact assessment method for use in a regulatory context. *Wetlands* 18: 393-408.
- Ambrose, R.F. and D. Meffert. 1999. Fish assemblage dynamics in Malibu Lagoon, a small hydrologically altered estuary in southern California. *Wetlands* 19(2): 327-340.
- Lafferty, K.D., C.C. Swift and R.F. Ambrose. 1999. Post flood persistence and recolonization of endangered tidewater goby populations. *North American Journal of Fisheries Management* 19: 618-622.
- Lafferty, K., C. Swift and R.F. Ambrose. 1999. Extirpation and recovery of local populations of the endangered tidewater goby, *Eucyclogobius newberryi*. *Conservation Biology* 13: 1447-1453.
- Murray, S.N., R.F. Ambrose, J.A. Bohnsack, L.W. Botsford, M.H. Carr, G.E. Davis, P.K. Dayton, D. Gotshall, D.R. Gunderson, M.A. Hixon, J. Lubchenco, M. Mangel, A. MacCall, D.A. McArdle, J.C. Ogden, J. Roughgarden, R.M. Starr, M.J. Tegner and M.M. Yoklavich. 1999. No-take reserve networks: Protection for fishery populations and marine ecosystems. *Fisheries* 24: 11-25.
- Miller, A.W. and R.F. Ambrose. 2000. Optimum sampling of patchy distributions: Comparison of different sampling designs in rocky intertidal habitats. *Marine Ecology Progress Series* 196: 1-14.
- Stein, E.D., F. Tabatabai and R.F. Ambrose. 2000. Wetland mitigation banking: a framework for crediting and debiting. *Environmental Management* 26: 233-250.
- Ambrose, R.F. 2000. Wetland mitigation in the United States: Assessing the success of mitigation policies. *Wetlands (Australia)* 19: 1-27.
- Moeller, A., R.F. Ambrose and S.S. Que Hee. 2001. A comparison of techniques for preparing fish fillet for ICP-AES multielemental analysis and the microwave digestion of whole fish. *Food Additives and Contaminants* 18: 19-29.

- Cohen, T., S.S. Que Hee and R.F. Ambrose. 2001. Comparison of trace metal concentrations in fish and invertebrates in three Southern California wetlands. *Marine Pollution Bulletin* 42: 224-232.
- Boyer, K.E., P. Fong, R.R. Vance and R.F. Ambrose. 2001. *Salicornia virginica* in a southern California salt marsh: seasonal patterns and a nutrient enrichment experiment. *Wetlands* 21 (3): 315-326.
- Stein, E.D. and R.F. Ambrose. 2001. Landscape-scale analysis and management of cumulative impacts to riparian ecosystems: Past, present and future. *Journal of American Water Resources Association* 37 (6): 1597-1614.
- Downs, T. and R. Ambrose. 2001. Syntropic ecotoxicology: a heuristic model for understanding the vulnerability of ecological systems to stress. *Ecosystem Health* 7: 266-283.
- Sudol, M.F. and R.F. Ambrose. 2002. The Clean Water Act and habitat replacement: Evaluation of mitigation sites in Orange County, California. *Environmental Management* 30: 727-734.
- Raimondi P., M. Wilson, R. Ambrose, J. Engle and T. Minchinton. 2002. Continued declines of black abalone along the coast of California: Are mass mortalities related to El Niño events? *Marine Ecology Progress Series* 242: 143-152.
- Moeller, A., S.D. MacNeil, R.F. Ambrose and S.S. Que Hee. 2003. Elements in fish of Malibu Creek and Malibu Lagoon near Los Angeles, California. *Marine Pollution Bulletin* 46: 424-429.
- Forrester, G.E., B.I. Fredericks, D. Gerdeman, B. Evans, M.A. Steele, K. Zayed, L.E. Schweitzer, I.H. Suffet, R.R. Vance and R.F. Ambrose. 2003. Correspondence between field-measured growth rates of fish from several California estuaries and the inferred toxicity of multiple sediment contaminants. *Marine Environmental Research* 56: 423-442.
- Vance, R.R., R.F. Ambrose, S.S. Anderson, S. MacNeil, T. McPherson, I. Beers and T.W. Keeney. 2003. Effects of sewage sludge on the growth of potted salt marsh plants exposed to natural tidal inundation. *Restoration Ecology* 11: 155-167.
- Shuman, C.S. and R.F. Ambrose. 2003. A comparison of remote sensing and ground-based methods for monitoring wetland restoration success. *Restoration Ecology* 11: 325-333.
- Page, H.M., S. Schroeter, D. Reed, R.F. Ambrose, J. Callaway and J. Dixon. 2003. An inexpensive method to identify the elevation of tidally inundated habitat in coastal wetlands. *Bulletin of the Southern California Academy of Sciences* 102: 130-142.
- Shuman, C.S., G. Hodgson, and R.F. Ambrose. 2004. Managing the Marine Aquarium Trade: Is Eco-Certification the Answer? *Environmental Conservation* 31(4).
- Shuman, C.S., G. Hodgson, and R.F. Ambrose. *In press*. Population Impacts of Collecting Sea Anemones and Anemone fish for the Marine Aquarium Trade in the Philippines. *Coral Reefs*.
- Murray, S.N., R.F. Ambrose and M.N. Dethier. *In press*. Monitoring Rocky Shores. University of California Press.

### **Other Affiliations**

Chair, California Coastal Commission's Scientific Advisory Panel for the San Onofre Nuclear Generating Station Mitigation Program; Member, UCLA Institute of the Environment Executive Committee; Member, Scientific Advisory Panel for the Southern California Wetlands Recovery Project and Technical Advisory Committee for the Santa Monica Bay Restoration Program.