

MARKETING SUMMARY

AQUATIC SOUND RECORDINGS

Case #TT0116

SUMMARY:

To overcome deficiencies associated with traditional underwater acoustical sampling systems, an interdisciplinary research team at East Carolina University's Institute for Coastal and Marine Resources has developed the capacity to make quality digital sound recordings of aquatic life in their natural habitat that are identifiable by species. These sound recordings may be particularly useful for regulatory and aesthetic purposes. For example research studies can be conducted on behavioral tendencies of specific aquatic species; spawning grounds can be identified and regulated to ease over-fishing; and sound recordings can be prepared for display at aquariums, museums, or as soundtracks for movies and films. Finally, educational products using aquatic sound recordings may be developed for classroom or personal use.

Preparation of these sound recordings reflect collaborations between Dr. Joseph Luczkovich, Associate Professor and Associate Scientist of the ECU Department of Biology and the Institute for Coastal and Marine Resources, Dr. Mark Sprague, Assistant Professor of Physics, and their associates at the Institute of Coastal and Marine Studies.

POTENTIAL AREAS OF APPLICATION:

- Studies of fish behavior
- Development of spawning maps
- Development of regulatory policies
- Sound recordings for use with aquariums, aquatic museums, movies, and films
- Development of educational products

STATE OF DEVELOPMENT: Recordings are available for red drum, spotted seatrout, weakfish, silver perch, oyster toadfish, Atlantic croaker, blackdrum, and shrimp. Recordings of other fish species can be prepared upon request.

DISCLOSURE: Samples of abbreviated sound clips are available immediately for evaluation at <http://personal.ecu.edu/spraguem/drumming.html>. Review of full-length CD quality sound recordings and associated data are available upon execution of a confidential disclosure agreement.

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