

This license will allow the use of two HF radar (CODAR) systems to map surface currents in the vicinity of western Long Island Sound. The two sites will provide continuous real-time data as part of the Long Island Sound Integrated Coastal Observing System (LISICOS). The goal for the LISICOS program is to establish and sustain a network of instruments and models to monitor Long Island Sound and provide state-of-the-art science advice to users, managers, and citizens. The CODAR systems will be used to resolve near-surface motion and spatial structure of the circulation in western Long Island Sound, which will aid in the development and assesment of models of oxygen, nutrient cycles, and other water properties. In addition, data from these systems will be used by the U.S. Coast Guard to improve prediction models for search and rescue applications.