

This FCC license is requested to allow scientific research funded by the following:

University of California Marine Council, contract 01T-CEQI-08-1091

Minerals Management Service, Department of the Interior, agreement 14-35-0001-30758

The research focuses on observing coastal ocean surface currents using a network of CODAR HF radars. The primary goal is to understand the large scale forcing of currents in the Santa Barbara Channel, such as their relation to winds and synoptic scale events. Ocean current data will also be used by other ongoing research projects in the Santa Barbara Channel. For example, the Partnership for Interdisciplinary Studies of Coastal Oceans (<http://www.piscoweb.org/>) will use the data to help understand marine ecosystem dynamics, including larval dispersal of economically viable species such as sea urchin, crab and lobster. Data will also be used by the Santa Barbara Coastal Long Term Ecological Research project (<http://sbc.lternet.edu/>) to help determine the effects of oceanic and coastal watershed influences on kelp forest ecosystems. Proposed research projects include the development of a drifter model, and improved understanding of wastewater plume dispersal.

In addition to these research interests, data will be available in real time via the internet to assist agencies involved with oil spill containment and search and rescue operations.