Land-Ocean-Atmosphere Interactions Lab

We study impacts of anthropogenic pressures and environmental hazards on biogeochemical cycles, ecological processes, and ecosystem services

urban development | atmospheric pollution | water quality | eutrophication | global warming | coastal hazards

Partnering with relevant stakeholders, a key objective of our research is applying results to link science to practice and enhance decision support systems

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Long Island Sound Project

Understand, model and predict the role of human activities on the Sound's health.

Student Activities

Learn about **impacts of human activities on water quality and ecological processes** in the Long Island Sound.

Learn about **spatial and temporal patterns** in nearshore atmospheric composition, **transport of air pollution across urban-terrestrial-aquatic interfaces**, and **impacts on coastal ecosystems and human health**.

Students will have the opportunity to **use satellite observations and measurements from past and ongoing air-quality and oceanographic field campaigns**

Gain **experience in statistical and GIS software** to quantify and map water composition and atmospheric pollutant concentrations along heavily urbanized coastlines, and **develop new skills in satellite data analysis and remote sensing techniques** fundamental to understanding and monitoring physical and biogeochemical processes in economically and ecologically important coastal environments.