



UNITED STATES
COAST GUARD
ACADEMY

Science Lecture Series

Studying the impact of a Coast Guard navigation buoy on benthic fauna

LCDR Nolan Salyer M. O.

Department of Marine Science, US Coast Guard Academy

The Coast Guard routinely services aids to navigation and must replace the anchor chain on marker buoys due to chain wear. These buoys can serve as a point source of tons of particulate iron to the surrounding environment. The buoys can also provide shelter and substrate to colonizing biota. This project characterizes the impact of a navigation buoy on benthos by using generalized additive models to spatially analyze mud samples comparing iron content and fauna abundance.

Wednesday, April 22nd, 2026

2000 - 2100

Dimick Auditorium

U.S. Coast Guard Academy

LCDR Nolan Salyer is a 2015 graduate of the Coast Guard Academy. While at the Academy, Nolan played football, wrestled, and was a member of the ski club. After graduating with an MES degree, Nolan spent three tours afloat with homeports in Honolulu, Bahrain, and San Francisco. Following an 87' WPB Commanding Officer tour in San Francisco, Nolan was selected to the Oceanography graduate school program at the University of Rhode Island. Nolan graduated from URI in 2022 and reported to the Academy as a Marine Science instructor. Nolan lives in Stonington with his wife, Amanda and their dog, Noodle.

If you have any questions regarding the event, please contact Dr. Kanani K. M. Lee
(kanani.km.lee@uscga.edu) for more information.