

## DEVELOPING A PORTABLE SHIPBOARD OCEAN LIDAR

A collaboration among scientists & engineers at Old Dominion University's Department of Ocean & Earth Sciences and Department of Physics and Nalu Scientific, LLC, Honolulu HI.

Ocean lidar provides active remote sensing of the depth distribution and abundance of:

- Suspended Particles
  - Phytoplankton, coccoliths & biogenic particles
  - Suspended sediments
  - Fish schools
  - Gas Bubbles
- Dissolved organic matter
- Day or night

Deployable above or below the water on:

- Surface vessels
- Underwater vehicles
- Moored platforms

Depth resolved information compliments passive remote sensing.

Supports algorithm development for airborne and spaceborne systems.

Financial support provided by:

- Virginia Research Investment Fund
- NOAA Phase I and II SBIR
- NASA

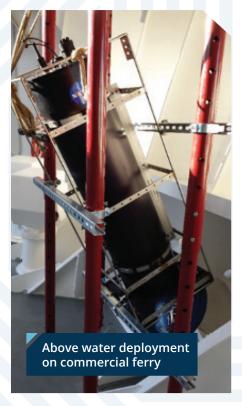


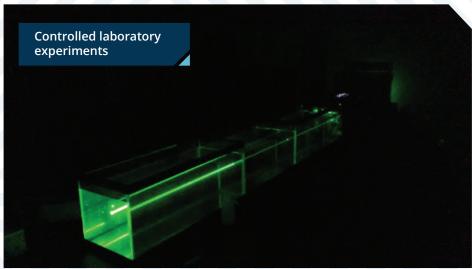
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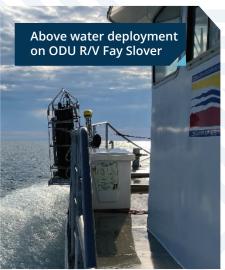
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Old Dominion University, located in Norfolk, is Virginia's forward-focused public doctoral research institution with approximately 23,500 students, rigorous academics, an energetic residential community and initiatives that contribute \$2.6 billion annually to Virginia's economy.