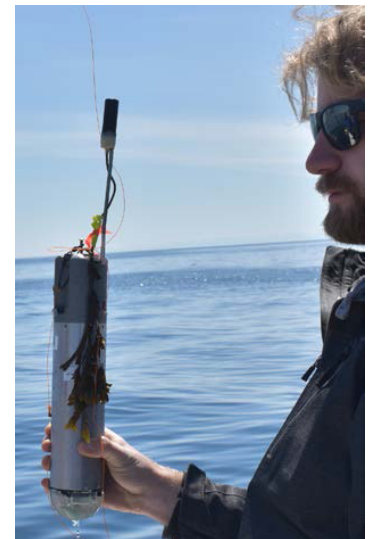
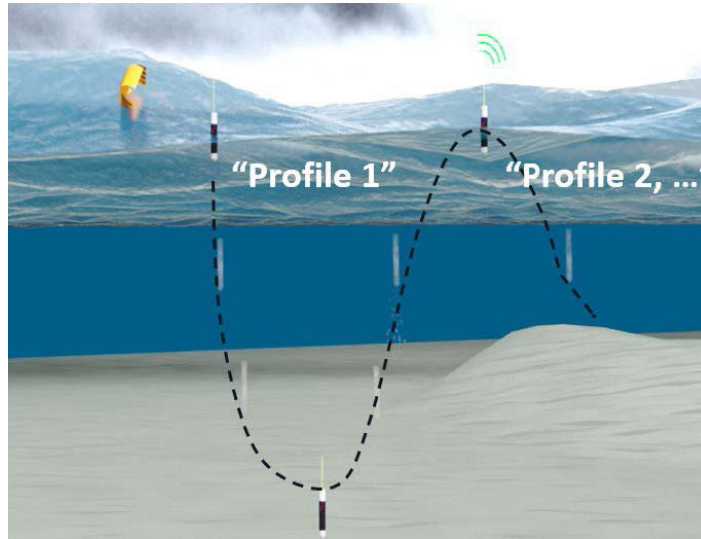
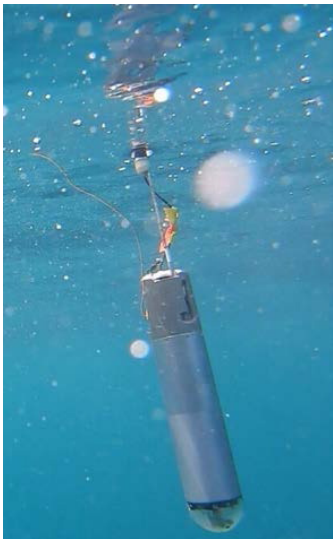


Advancing Hurricane and Storm Forecasting

MASED: Multipurpose Above/Below Surface Expendable Sonde

MASED is one of Boston Engineering's low-cost, modular, configurable, family of open-architecture maritime sondes and buoys that collect critical sensor data such as conductivity and temperature and meet multiple research, commercial and defense needs.

MASED addresses rapid intensification and other critical research applications by taking multiple, targeted profiles in the ocean's critical areas.



Features

- Expendable or recoverable
- Multiple, untethered dives followed by resurfacing ("profiles")
- Onboard power (rechargeable optional)
- Low-cost, replaceable conductivity, temperature, depth sensors standard (other sensors possible)
- Automatic satellite communications
- Hand, vessel, or air-droppable
- AVAPS sized & launched
- Allows colocation of AVAPS atmospheric and ocean data
- Flexible, robust expanding antenna mast for robust comms



Technology Highlights

- 16.5 in. long x 2.75 in. diameter with air drop kit attached (as shown)
- 2.6 lbs. dry weight (neutral wet)
- Self-releasing & detaching parachute
- Operational depth rating: 200m (deeper profiles possible)
- Standard number of profiles: 5 –10
- Standby time: Weeks
- Iridium communications
- Easy to use/launch, programmable profiles
- Standard sensors:
 - Conductivity
 - Temperature
 - Depth
 - IMU
 - GPS

Technology Status

- Delivering prototypes to NOAA AOC for test/development
- TRL6-7
- Commercialization in progress
- Prototypes available. Product ready for sale expected: 2022



About Boston Engineering

Founded in 1995, Boston Engineering (Waltham MA) provides product design and engineering consulting across the entire product development process –from concept through connected product capabilities. Boston Engineering’s Advanced Systems Group (ASG) develops game-changing IP in robotics, uncrewed systems, and special marine equipment. Our experienced, multidisciplinary team drives technology evolution for defense and other customers. Boston Engineering is also an Ansys, Internet of Things (IoT) ThingWorx, and PTC Platinum Partner.

Contact Us

