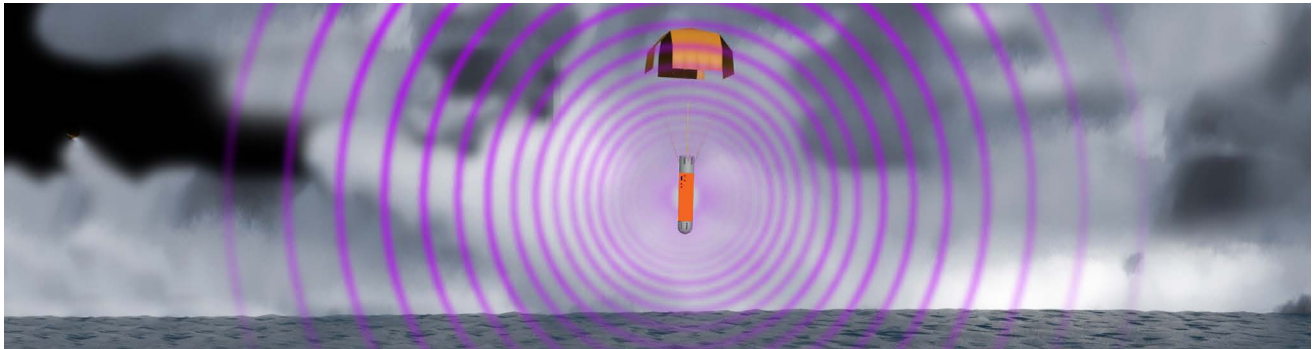


## Advance Hurricane and Storm Forecasting

### Multipurpose Above/Below Surface Expendable Dropsonde (MASED)

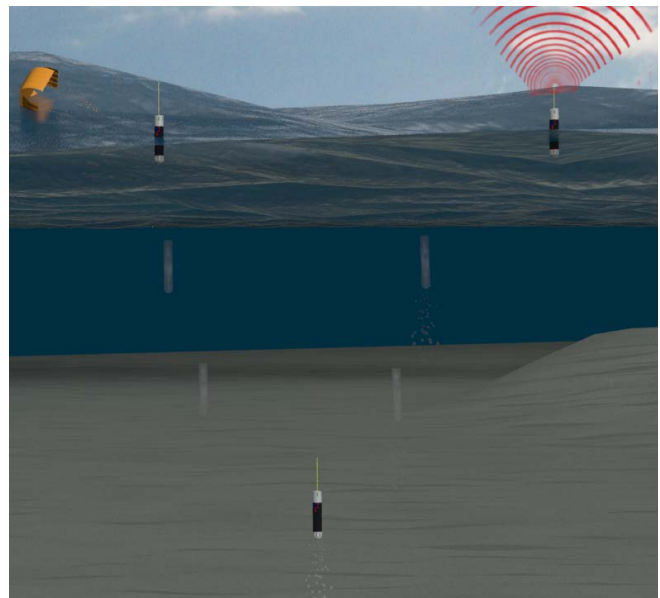


**Boston Engineering's MASED enhances hurricane forecasting by collecting multiple readings from inside the storm area to improve modeling for hurricane intensity and trajectory over water.**

MASED is a dropsonde buoy with an adaptable and modular sensor capability that transmits live data via satellite. It is the first product to collect ocean data during developing hurricanes via multiple submerge-and-surface cycles. By contrast, traditional dropsonde technology is costly and is limited to a single storm reading.

### MASED Features

- Programmable mission profiles:
  - Controlled subsea descent and ascent
  - Multiple water column profiles with programmable profile timing
- Robust communications: Iridium network for real-time or stored data transmission
- Modular hardware design for mission adaptability:
  - Deploy from aircraft/surface craft
  - Fits launch tube variants
  - Customizable for new requirements
- Mission manager operating system supports multiple software applications (e.g., communications and controls)
- Adaptable to accommodate various sensors
- Economical/low cost



**MASED conducts multiple descent and ascent cycles to improve storm modeling.**



## Marine Package



## Launch Package

### Parachute Basket & Release System



## About Boston Engineering

Boston Engineering provides product design and engineering consulting from concept through commercialization and connectivity. Boston Engineering is also the Northeast's largest PTC software reseller and is a ThingWorx IoT partner. Certified for ISO 9001 and ISO 13485, the company's industry expertise includes commercial, defense, medical, and robotics. Founded in 1995, Boston Engineering is headquartered in Waltham, Mass.

## Technology Delivery Schedule

Boston Engineering is providing NOAA's Aircraft Operations Center with Rev A prototypes for field testing to advance MASED.

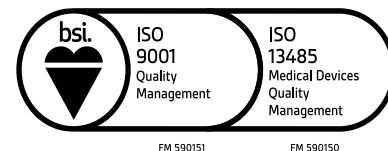
## Contact

Michael Rufo

Director, Advanced Systems Group

Boston Engineering

781-466-8010 / [mrufu@boston-engineering.com](mailto:mrufu@boston-engineering.com)



© 2019 Boston Engineering Corporation. All rights reserved. Boston Engineering and Imagine the Impact are trademarks of Boston Engineering Corporation. All other brand or product names are trademarks or registered trademarks of their respective owners. CA191030v1

SBIR Data Rights Notice (Dec 2007): These SBIR data are furnished with SBIR rights under Contract No. WC-133R-15-CN-0112. For a period of 4 years, unless extended in accordance with FAR 27.409(h), after acceptance of all items to be delivered under this contract, the Government will use these data for Government purposes only, and they shall not be disclosed outside the Government (including disclosure for procurement purposes) during such period without the permission of the Contractor, except that, subject to the foregoing use and disclosure prohibitions, these data may be disclosed for use by support Contractors. After the protection periods, the Government has a paid-up license to use, and to authorize others to use on its behalf, these data for Government purposes, but is relieved of all disclosure prohibitions and assumes no liability for unauthorized use of these data by third parties. This Notice shall be affixed to any reproductions of these data, in whole or in part. (End of Notice)