

Falmouth Scientific, Inc.

**A well-established Cape Cod small business that
designs and manufactures
precision instrumentation and systems for
ocean and fresh-water applications
around the world**



Falmouth Scientific, Inc
Sensors – Systems – Service
www.Falmouth.com



Local with a Global Reach

Deep Experience with a Rich History

Founded in 1989 based on WHOI Technology Transfers
Roots in Datasonics, Acoustikos, Hegg Marine Solutions

Regional Co-Development and Cooperation

McLane Research Labs	University of Rhode Island
Teledyne Marine	WHOI
Image Acoustics	Hydroid
Ultra Ocean Systems	Center for Coastal Studies
NUWC	USGS
Local suppliers, machine shops, other services	

Active in New England Industry Organizations

Marine & Oceanographic Technology Network (MOTN)
Marine Technology Society (MTS)
Falmouth & Cape Cod Chambers of Commerce

Global Presence

Representation in 20+ countries on 6 continents
International = 59% of sales revenue in 2016



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Services, Capabilities, Facilities

- Specialized transducer design, prototyping, manufacturing and calibration
- Electrical, Mechanical, and System design
- Assembly/Potting/Encapsulation
- Electrical & Acoustic Test
- Pressure & Environmental Test
- 3,000 sq. ft. production area
- 10,000 psi pressure tank
- 12-ft acoustic test tank
- Company research vessel
- Close proximity to industry resources and open water test locations



Acoustic Test Tank & Lab



Calibration Lab



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Product Focus Areas

Sensors

- ACM-PLUS
 - Deep & Shallow Models
 - Optional Integrated CTD
- ACM-WAVE-PLUS
- WAVE-TIDE-PLUS
- Remote Tide System



Systems

- Bubble Gun™ Seismic Systems
- CHIRP Sub-Bottom Systems & Arrays
- Specialized Transducers & Systems
- Portable Side Scan Sonar
- Pingers, Transponders, Flashers, Locators



Service

- System Engineering & Integration
- Transducer Manufacturing & Test
- Acoustic/Electronic/Mechanical



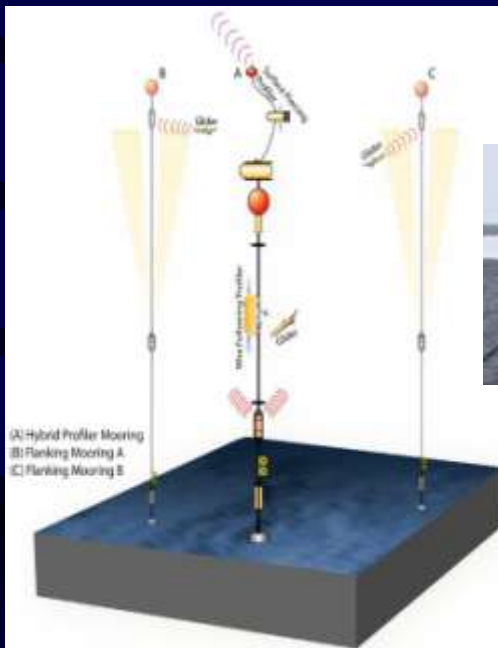
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Sensor Applications

Ocean Observatories Initiative (OOI)

FSI Current Meters are used on McLane Moored Profilers being deployed on Global Hybrid Profiler Moorings



Florida Department of Environmental Protection

FSI ACMs deployed for well over **TEN YEARS** sending continuous real-time data via cables or acoustic modems for monitoring of underground fresh-water caverns

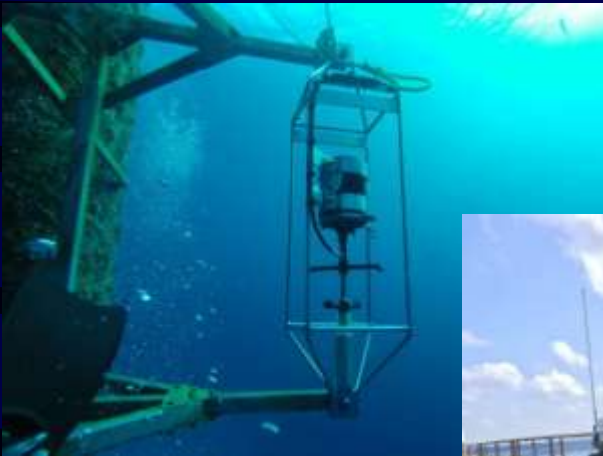


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Sensor Applications

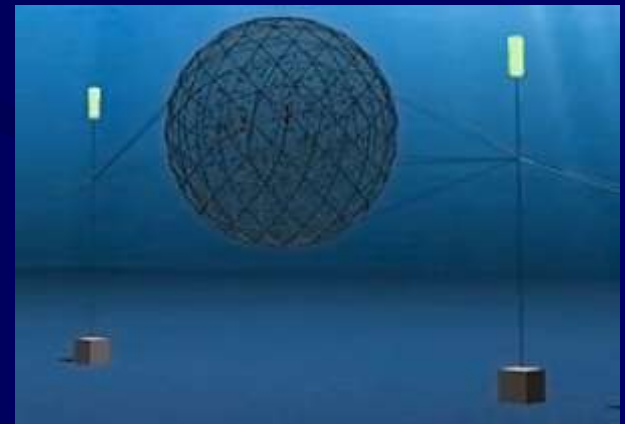
Real Time Current Data sent over AIS AtoN

FSI Current Meters are being used at the Cozumel cruise ship terminal to send real-time current speed and direction data to incoming cruise ships via standard AtoN transmitting systems



Ocean Farm Technologies

FSI ACM used with additional sensors to measure the environment around fish farming Aquapods™



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Bubble Gun Application

Block Island Wind Farm Site Survey

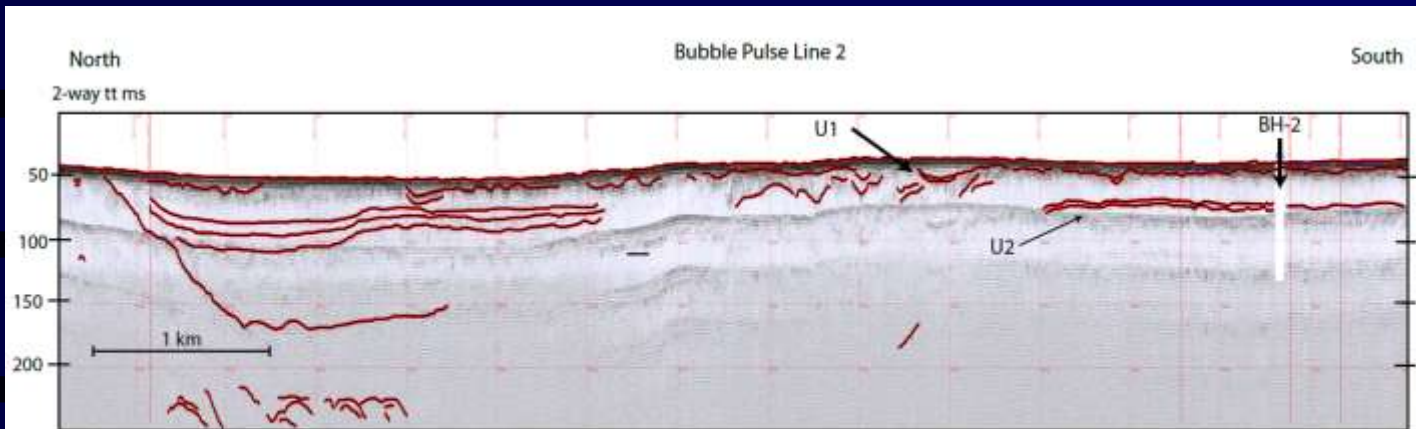
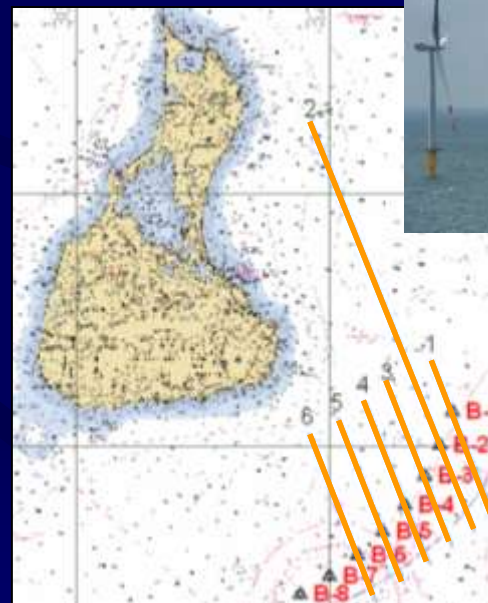


Figure 17. Bubble Pulse Line 2 showing reflectors u1 and u2 intersecting borehole site 2. U1 and U2 are correlated with fu1 and fu2, USGS regional reflectors to the north.

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The Bubble Gun provided over 100m of penetration, well above the 50m requirement, and much better than previous surveys using other systems



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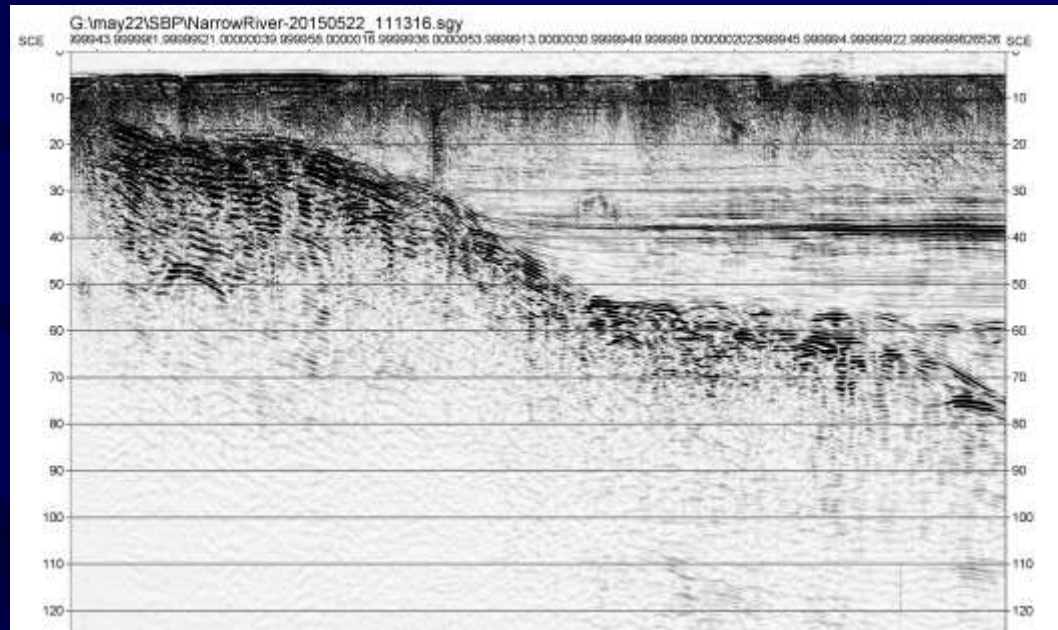


Bubble Gun Application

URI Narrow River Sand Reclamation Study



Identified areas with lower potential archeological impact



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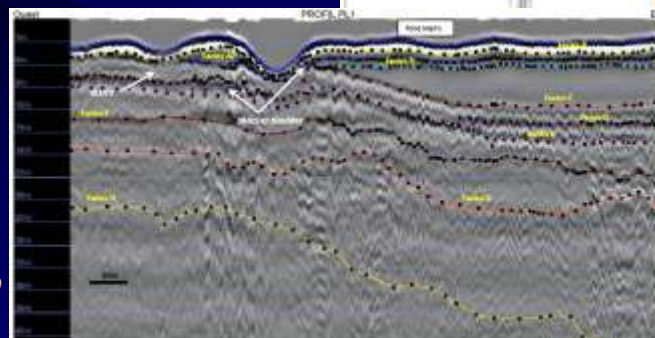
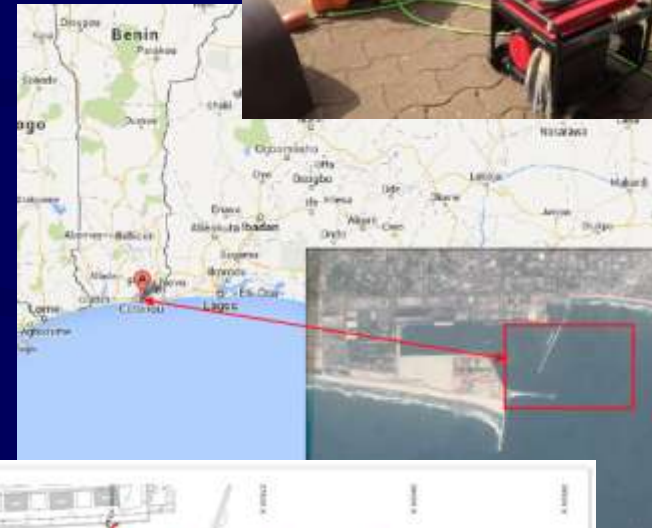


Provided by



Bubble Gun Application Port Expansion Survey

- Port of Cotonou, Nigeria
- The depth of penetration obtained was on the order of 50 meters
- The first meters are muddy sand, so there is no major difficulties for dredging
- Some blocks which may interfere with the dredging have been identified and their locations were reported
- Port expansion work can take place



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Thank you for your time and attention

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