Low-Cost Unmanned Underwater & Semi-Submersible Vehicles for Reconnaissance & Surveillance

Presented by:
Bill Senke, Business Development Manager
Lockheed Martin Undersea Systems in Riviera Beach, Florida

POC:
Mr Brett Phaneuf, President
Submergence Group in Chester, CT
brett@submergencegroup.com
Diesel-Electric Submarine, S102
Diesel-Electric Submarine, S103
Diesel-Electric Submarine, AP6
Highly portable and easy to deploy with existing infrastructure, the mission-reconfigurable submarine, S201, is an ideal platform for operations in littoral waters.
S201 has a low radar cross-section when surfaced, and with appropriate camouflage it is nearly impossible to detect.

When submerged, S201 is nearly undetectable under propulsion and silent when bottomed to collect data.

A comprehensive suite of active acoustic systems are installed aboard S201 and additional active or passive systems may be added with little cost or engineering effort.
S301, Shallow Water Combat Submersible Technology & Capability Demonstrator
Designed for launch & recovery from a dry-deck shelter and/or D5 missile tube

<table>
<thead>
<tr>
<th>Specification</th>
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<tbody>
<tr>
<td>Length OA</td>
<td>6.5m</td>
</tr>
<tr>
<td>Beam</td>
<td>2.34m</td>
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<tr>
<td>Height OA</td>
<td>1.75m</td>
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<tr>
<td>Crane Weight</td>
<td>13,000 kg nominal</td>
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<tr>
<td>Maximum operating depth</td>
<td>300 meters seawater</td>
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<tr>
<td>Surface Speed</td>
<td>Up to 6 knots (estimated)</td>
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<tr>
<td>Submerged Speed</td>
<td>TBD</td>
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<tr>
<td>Submerged Power Endurance</td>
<td>At 5knts: approx 30 hours, 150 nm</td>
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<tr>
<td>Complement</td>
<td>Two pilots &amp; six divers</td>
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MASTT

Mobile Anti-Submarine Training Target
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S201 ~ Experimental Research Transformational Submarine

- Portable
- Low Cost
- 305m/1000ft Depth Rating
- 150 Nautical Mile Range
- 24 Hours Submerged Duration
- Autonomous operation

- Length: 9 meters
- Beam: 1.65 meters
- Height: 1.85 meters
- Weight: 9 tons
- Cruising Speed: 5 knots
- Life Support: 240 man hours
Diesel-Electric Submarine, *FC01*