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Expendable Bathythermograph

The AN/SSQ-36B is a NATO A-size sonobuoy manufactured for the U.S. Navy which provides vertical temperature profiles of the ocean layer for research and ASW purposes. The AN/SSQ-36B is widely used for airborne Anti-Submarine Warfare (ASW) applications to evaluate local effects of seawater temperature on sonar propagation and acoustic range prediction.

Basic capabilities include a 2625 feet (800 meter) temperature profile and the capability to select one VHF transmitter channel out of 99 available channels. A thermistor located in the probe measures the changes in seawater temperature during descent from the surface. The data can be processed and displayed as temperature versus depth via RF transmittal to the launch aircraft.

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Key Features

- 0-800 meters (0 to 2625 ft)
- 99-channel RF Transmitter
- 0-35° Sensor Temp Range

Why Twenty-Six Defense Maritime

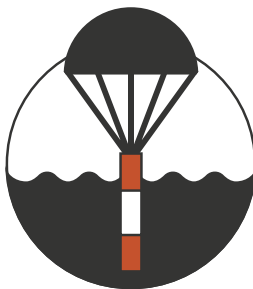
Twenty-Six Defense Maritime, a Twenty-Six Defense company, is a world leader in the design, development, testing and production of complex electromechanical systems and sensors, including Sparton sonobuoys. The company delivers a variety of sensing and advanced analytics capabilities that enable our nation to dominate the maritime domain.

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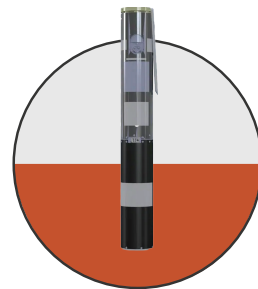
How it Works



The AN/SSQ-36B Bathythermograph is air launchable from fixed or rotary-wing aircraft or surface vessel.



Descent of the sonobuoy is stabilized and slowed by a parachute.



Begins transmitting upon water entry.



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THE MISSION

AN/SSQ-36B
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Physical Characteristics

Weight	8.53 kg (18.8 lbs)
Sonobuoy Launch Container	LAU-126/A

Performance Data

RF Transmitter Power Output	0.25 W minimum
RF Transmitter Operating Frequency	99 Channel Selectable (136.000 to 173.500 MHz)
Sensor Temperature Range	0 to 35°C
Temperature Accuracy	± 0.55°C
Probe Descent Rate	1.5 m/s (5 ft/s)
Operating Life	12 minutes maximum
EFS Selection	RF Channel
Scuttle	Automatic
Launch Altitude	12 to 9144 meters (40 to 30000 ft)
Launch Speed	0 to 370 KIAS
Shelf Life	5 years in sealed container