

# Deep Ocean Search, Survey, and Recovery

Phoenix International Holdings, Inc. (Phoenix) is an undersea operations company well versed in conducting worldwide underwater projects with a wide range of subsea systems. Phoenix personnel have traveled all over the world and performed hundreds of challenging deep ocean operations with Remotely Operated Vehicles (ROVs), towed systems, and an Autonomous Underwater Vehicle (AUV). We have worked for the U.S. Navy, oil and gas, ocean science, and underwater exploration customers. Our superior performance operating and maintaining sophisticated undersea systems and highly qualified personnel have made Phoenix a proven and respected undersea operations company.

## Noteworthy Missions

- Recovery of U.S. Navy MH-60S helicopter in 5,817msw in the Western Pacific—a world record deep ocean salvage
- Search for the vessel *El Faro* and recovery of the voyage data recorder from the wreckage in 4,572 msw in the Bahamas
- Recovery of C-2 Greyhound fixed wing aircraft from 5,733 msw in the Western Pacific (a previous world record)
- Search and Recovery of Canadian CH-148 helicopter from 936 msw in the Mediterranean Sea
- Search for Argentinean Submarine ARA San Juan in the South Atlantic
- Search for Malaysian Air Flight MH370 in the Southern Indian Ocean
- Search for Air France Flight 447 and recovery of the flight data recorder and cockpit voice recorder from 3,980 msw in the South Atlantic

## Contact us to learn more

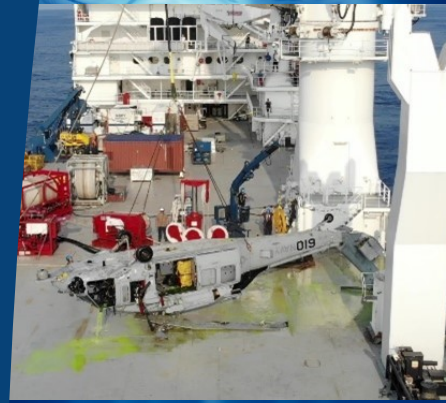
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## U.S. Navy SUPSALV Contract

Phoenix holds a contract with the U.S. Navy, Director of Ocean Engineering, Supervisor of Salvage and Diving (SUPSALV), for conducting worldwide rapid response undersea search, salvage, recovery, and rescue operations. Under this contract we are tasked to perform 24/7 worldwide search and recovery operations for various military and government agencies. We also operate and maintain the U.S. Navy's inventory of deep ocean search and recovery equipment. Phoenix owned commercial search and recovery systems also deploy, as necessary, to support of SUPSALV operations.

### Remotely Operated Vehicles (ROVs)

Phoenix's Remora ROV system performs work to water depths of 6,000 meters (20,000 feet), and was designed and built in-house to meet our unique requirements. Our ROV personnel were heavily involved in the design of the system, relying on their many years of experience to ensure that the final design met the hazardous requirements of operating in extreme water depths while maximizing the reliability of the system.

### Autonomous Underwater Vehicle (AUV)

Phoenix operates and maintains a 5,000 meter depth-rated Autonomous Underwater Vehicle (AUV) named Artemis, "Goddess of the Hunt", equipped with multiple payloads and backseat control architecture. This architecture coupled with the Phoenix-built payload computer accepts a variety of sensors enabling real-time behavior control of the vehicle based on sensor input.

### Towed Pinger Locator (TPL)

The Phoenix Towed Pinger Locator (TPL) system provides the capability to detect and locate emergency relocation pingers on downed aircraft to a maximum depth of 6,000 msw anywhere in the world. Commercial aircraft pingers are mounted directly on the flight data and cockpit voice recorders, the recovery of which is critical to an accident investigation.

**Phoenix International Holdings, Inc.**

**An employee owned company**

