

Northrop Grumman, Ultra Demonstrate ASW Using Unmanned Helicopter



Northrop Grumman collaborates with Ultra to demonstrate unmanned anti-submarine warfare capability. Northrop Grumman SAN DIEGO – Northrop Grumman Corp. and U.K.-based Ultra equipped a modified, manned Bell 407 (acting as an MQ-8C Fire Scout surrogate) platform with Ultra sonobuoys, receiver and processor to complete an unmanned aircraft systems (UAS) anti-submarine warfare (ASW) capability demonstration, Northrop Grumman said in a Feb. 2 release.

This successful demonstration of the UAS ASW mission on Oct. 29 was the first time a vertical takeoff surrogate unmanned aerial system had been used to conduct a large area multi-static acoustic search. The mission payload and effects were controlled from the ground with the resultant ASW picture disseminated to locations across the globe.

“Adding an ASW capability to Fire Scout’s existing multi-

mission capabilities would further enhance this highly-versatile platform,” said Dan Redman, Fire Scout maritime mission expansion lead, Northrop Grumman. “This ASW capability would offer commanders flexibility to employ not only UAS systems in this particular ASW role, but also utilize the increased availability of crewed aircraft more incisively against an expanded mission set. This would increase the total available effect of the manned/unmanned teamed force mix.”

By jointly developing and demonstrating UAS ASW capabilities, initially on an MQ-8C Fire Scout manned surrogate as part of an industry-led initiative, the two companies are combining their world-leading expertise and experience with the aim of bringing unique ASW solutions to global customers. While the U.S. Navy has not yet identified a clear requirement for UAS ASW capability, it has shown interest in the development and continues to support and monitor progress.

“Operating prototype hardware in a high-pressure real-world environment can be challenging,” said Thomas Link, president of Ultra Maritime. “Our partnership will bring an innovative and leading ASW capability into operation, combining both manned and unmanned ASW systems that will help defend our warfighters and provide increased capability to our forces.”

The MQ-8C Fire Scout can fly missions in excess of 12 hours, providing commanders an unrivaled level of layered multi-source/sensor intelligence, surveillance, reconnaissance and command and control/comms relay capabilities over land and sea. When operating in a manned-unmanned teaming concept, Fire Scout enables commanders to employ manned assets in a more focused manner, allowing them to exploit hybrid manned/unmanned teaming opportunities.

Ultra’s applications engineers are trusted partners in the design, development and production of the key elements of mission critical, intelligent and highly regulated systems.