



Title: NAVAIR Selects Near Earth Autonomy to Enable Uncrewed Ship-to-Shore Operations in Contested Maritime Environments

Subtitle: Resilient Uncrewed Logistics in GPS-Denied Maritime Environments

Pittsburgh, PA - March 27th, 2026 / The [Naval Air Systems Command](#) has awarded [Near Earth Autonomy](#) (Near Earth) a contract to develop an aircraft-agnostic autonomy solution for ship-to-shore and shore-to-ship operations through an Other Transaction Agreement (OTA) under the Naval Aviation Systems Consortium (NASC). The work will advance the U.S. Marine Corps' capabilities for uncrewed logistics missions in contested maritime environments.

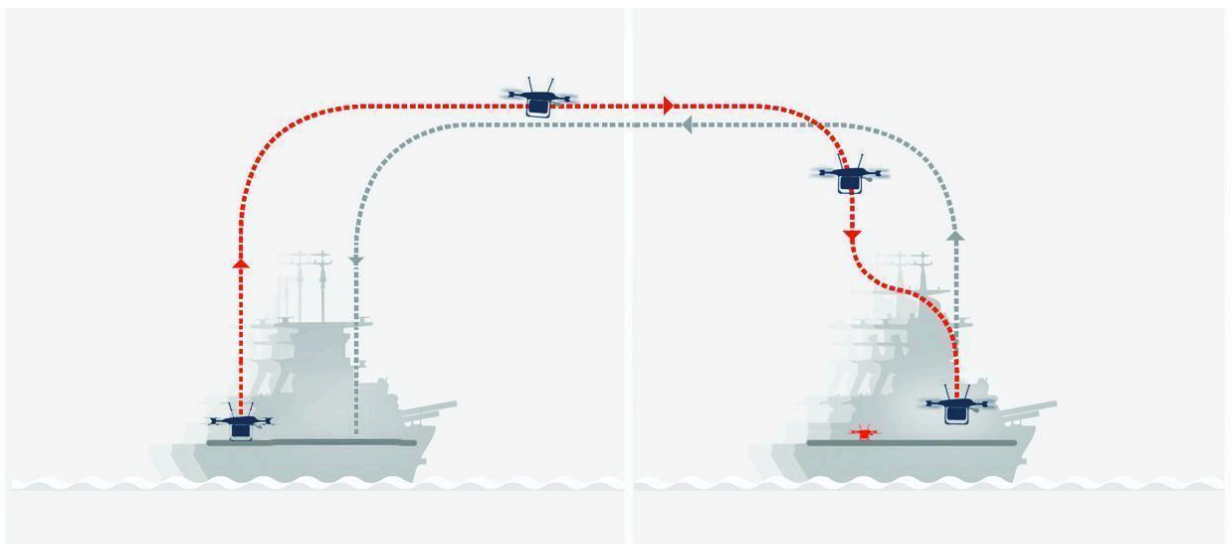


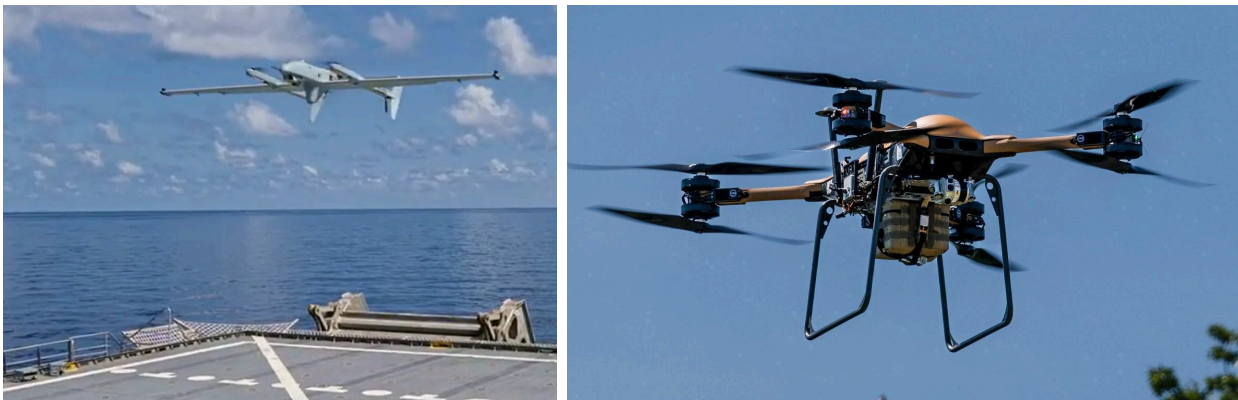
Illustration of UAS with Near Earth's Compact Firefly System Conducting Maritime Logistics

Most uncrewed aircraft systems (UAS) operations rely on infrastructure, including GPS and continuous data. When these are unavailable or denied, it becomes more difficult, or outright impossible, to complete missions. Near Earth directly addresses these challenges by enabling UAS to conduct complex maritime logistics, in shore-to-ship, ship-to-ship, and ship-to-shore transfers, without reliance on external infrastructure. This capability significantly increases operational resilience for naval forces.



Near Earth's Firefly Compact, Aircraft-Agnostic Autonomy System for Uncrewed Maritime Operations

[Near Earth's Firefly compact autonomy system](#) is designed for integration with a wide variety of aircraft. Weighing just 2 pounds, Firefly is light enough to be incorporated into a broad range of Class 3 and Class 4 aircraft, greatly expanding its applicability across the uncrewed aviation ecosystem. It has been successfully integrated on platforms including BAE, L3 Harris, and Pterodynamics. Multiple capabilities will be matured under the contract, including autonomous confined area operations, ship recovery in emissions-controlled (EMCON) environments, and GPS-free navigation.



Near Earth's Firefly Compact Autonomy System on L3 Harris FVR-90 (Left) and BAE TRV-150 (Right)

This contract with the Navy is a key next step, maturing our autonomous systems performance for maritime missions," said Sanjiv Singh, CEO of Near Earth Autonomy. "We will build upon our past work on compact systems for uncrewed aerial logistics. This effort supports the Navy's ability to perform resilient, reliable maritime operations across aircraft."



Near Earth's technology performing ship deck tracking on previous DoD programs

This development will build on Near Earth's 13+ years of innovation for defense programs. The progression began with [Autonomous Aerial Cargo/Utility System \(AACUS\)](#), which pioneered rotorcraft autonomy for Marine Corps resupply. Building on this, Near Earth miniaturized the [Joint Capability Technology Demonstration \(JCTD\) system for Unmanned Logistics Systems Air \(ULS-A\)](#), proving autonomy for small UAS in confined areas. NAVAIR selected Near Earth Autonomy for the USMC [Aerial Logistics Connector Program](#) to demonstrate optimized logistics using rotorcraft. The Firefly system represents the latest advancement, enabling small cargo UAS operations for programs like the [Marine Corps' Tactical Resupply Unmanned Aircraft System \(TRUAS\)](#).

This contract will be validated through a series of test events to validate requirements, refine operational procedures, and systematically verify system performance. These tests will culminate in a final demonstration with the [Naval Air Systems Command](#) at Patuxent River in September 2026, showcasing a full range of capabilities, including ship searching, deck tracking, night operations, and autonomous flights between moving vessels.

About Near Earth Autonomy

Near Earth's technology allows aircraft to autonomously take off, fly, and land safely, with or without GPS. Their solutions enable aerial mobility applications for partners in the commercial and defense sectors. Near Earth bridges the gap between aerospace and robotics with complete systems that improve efficiency, performance, and safety for aircraft ranging from small drones to full-size helicopters. Learn more at nearearth.aero.