

MEPNN Supplier Scouting Opportunity Synopsis

Section 1: General Information

Scouting Number	2026-418
Item to be Scouted	Unmanned Aircraft System (UAS) platform
Days to be scouted	15
Response Due By	08/13/2026
Description	Manufactured or commercial off the shelf Unmanned Aircraft System (UAS) platform similar in form, fit, and function to the Wingtra Ray platform. This is a turnkey platform, sensors which eliminate the need for sensor integration

Section 2: Technical Information

Type of supplier being sought	GLERL's portfolio including a LIDAR sensor and an additional multispectral camera that can detect land vs water which is critical for inundation model
Reason	Validation.
Describe the manufacturing processes (elaborate to provide as much detail as possible)	Unknown except as provided in attached spec sheet
Provide dimensions / size / tolerances / performance specifications for the item	The National Oceanic and Atmospheric Administration (NOAA) Oceanic and Atmospheric Research (OAR) Great Lakes Environmental Research Laboratory (GLERL) has a mission-critical requirement to acquire a rapidly deployable Unmanned Aircraft System (UAS) platform. The GLERL is a multidisciplinary environmental research laboratory that provides scientific understanding to inform the use and management of Great Lakes and coastal marine environments. This capability is required to support rapid response payloads and monitoring and collection payloads. Capable of surveying 550 hectares (13.5 km²) in a single hour. The acquired data will directly validate GLERL's active flood forecasting models. Flooding conditions change rapidly; an in-house fleet drastically reduces data acquisition timelines and costs compared to deploying low-level crewed flights, which are constrained by pilot availability, high costs, and cloud ceiling limits (<3,000 ft). Operating Envelope: Maximum take-off weight (MTOW) of 5.2 kg with a payload capacity of 1.25 kg. Wind resistance up to 12 m/s sustained (18 m/s gusts), and operating temperatures ranging from -10°C to 40°C. Avionics & Power: Redundant GNSS utilizing GPS (L1, L2), GLONASS (L1, L2), Galileo (L1), and BeiDou (L1) across specific frequencies. Powered by Lithium Polymer (LiPo) batteries with a 30.8V nominal voltage. The platform must pass the NOAA UAS requirements to meet the airworthiness certification for the Wide Area Field Operations. The vendor must offer platform sensor integration, wide area field sensor connections that eliminate the extensive physical wiring, and weight distribution adjustments associated with secondary payloads. Michigan Platform: Wingspan: 125 cm Material: Carbon Fiber / Glass Fiber / KEVLAR / PVC Maximum take-off weight: 5.2 kg Wind Resistance: Up to 12 m/s sustained (18 m/s gusts) Working Temperature: -10°C - 40°C Payload capacity: 1.25 kg Batteries: Type: Lithium Polymer (LiPo) Nominal Voltage: 30.8 V GNSS: Redundant, using GPS (L1, L2), GLONASS (L1, L2), Galileo (L1) and BeiDou (L1) Frequencies range: 1227.6 MHz / 1242.9375-1251.6875 MHz / 1561,098 MHz Drone type Tailsitter vertical take-off and landing (VTOL) Maximum take-off weight 5.2 kg (11.5 lb) Payload capacity 1'250 g (2.75 lb) Wingspan 125 cm (4.1 ft) Battery capacity Two 99 Wh batteries (required as a pair) Battery type Lithium-polymer, smart battery technology, UN3481 compliant Radio link (2.4 GHz, primary) Bi-directional 10 km (6 mi) in direct line of sight,

	obstacles reduce the range Radio link (LTE, secondary) Bi-directional unlimited range within mobile network coverage Onboard GNSS Redundant, using GPS (L1, L2), GLONASS (L1, L2), Galileo (L1) and BeiDou (L1) Frequencies range: 1227.6 MHz / 1242.9375-1251.6875 MHz / 1561,098 MHz / 1575,42 MHz / 1598.0625-1609.3125 MHz / 1602,00 MHz Dimensions of drone 125 × 68 × 12 cm (49.2 × 26.8 × 4.8 in, without landing fin) Dimensions of transport case 130 x 70 x 34 cm (51.2 x 27.6 x 13.4 in) Dimensions of transport case with cardboard shipping protection 134 x 74 x 37 cm (52.8 x 29.1 x 14.6 in) Weight of transport case incl. drone bundle 14.4 kg (32 lb) Weight of transport case fully loaded (drone bundle + all optional accessories) 18.6 kg (41 lb) Operation Flight speed Operational cruise speed, Climb / sink cruise, Climb / sink hover Adaptive between 16 and 22 m/s (36 and 49 mph) 8/8 m/s (17.9 / 17.9 mph) 6/2.5 m/s (13.4 / 5.6 mph) Wind resistance - Max sustained wind - 12 m/s (27 mph); Max wind gusts - 18 m/s (40 mph); Max sustained wind on the ground - 8 m/s (19 mph) Flight time 59 min with MAP61, SURVEY61, INSPECT, RedEdge-P and SURVEY24 45 min with LIDAR Temperature (ambient) -10 °C to 40 °C (14 °F to 104 °F) Maximum take-off altitude above sea level 4'800 m (15'700 ft) AMSL with high-altitude propellers Maximum flight altitude above sea level 5'000 m (16'400 ft) AMSL with high-altitude propellers Ingress Protection IP53 Weather Not recommended to fly in fog, rain and snow Auto-landing accuracy < 2 m (< 7 ft)
List required materials needed to make the product, including materials of product components	Unknown except as provided in attached spec sheet.
Are there applicable certification requirements?	No
Are there applicable regulations?	No
Are there any other standards, requirements, etc.?	No
Additional Technical Comments	The platform must pass the NOAA UAS requirements to meet the airworthiness certification for the Wide Area Field Operations. The vendor must offer platform specific training in order to meet the NOAA training requirement.

Section 4: Business Information

Estimated potential business volume	One-time purchase
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Estimated target price / unit cost information (if unavailable explain)	Providing the following as an estimate. Any solution should cover the below needed items. Quantity of (1) RAY DRONE BUNDLE - \$33,580.00 Quantity of (1) WingtraRAY MAP61 Payload - WR-ADD-MAP61 WingtraRAY MAP61 Payload - \$15,010.00 Quantity of (1) WingtraRAY RE-P Payload - WR-ADD-REP WingtraRAY RE-P Payload - \$15,010.00 Quantity of (1) WingtraRAY Heavy flyer add-on - WR-HEAVY-FLYER WingtraRAY Heavy flyer add-on - \$6,693.00 Quantity of (1) WINGTRA TABLET - TAB-PREMIUM Premium Tablet - \$5,238.00 Quantity of (1) WingtraRAY Parachute - WR-PARACHUTE WingtraRAY Parachute - \$10,573.00 Quantity of (1) WingtraRAY bundle with OS - WR-BUNDLE-INCL-PPK WingtraRAY bundle with OS - \$32,830.00 Quantity of (1) WINGTRA TABLET - TAB-PREMIUM Premium Tablet - \$5,238.00 Quantity of (1) WingtraRAY RE-P Payload - WR-ADD-REP WingtraRAY RE-P Payload - \$15,010.00 Quantity of (1) WINGTRARAY PARACHUTE - \$10,573.00 Quantity of (1) RAY HEAVY FLYER ADD ON - \$6,693.00 Quantity of (1) GROUND KIT DRONE MAPPING - \$11,252.00
When is it needed by?	Anticipate contract award by 09/18/2026 with delivery by 10/30/2026
Describe packaging requirements	Best available. Delivered undamaged. Specifics discussed in negotiation
Where will this item be shipped?	Ann Arbor, Michigan

Additional Comments

Is there other information you would like to include?	This is a Simplified Acquisition, which has a shorter lead time to completion than an action over \$250,000.00. It is expected that this requirement will be awarded within the next 30-60 days and any timely scouting (requested completed within 15 days from submission) would be appreciated to align with the Simplified Acquisition requirements for posting and the Buy American Act Waiver process.
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