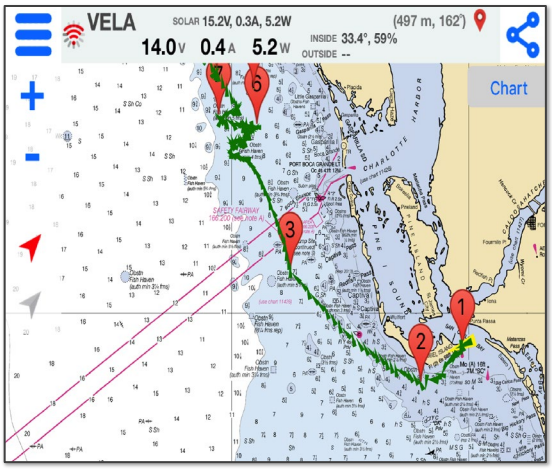
# Nav2 ASV – Technical Specs

Navocean's **Nav2** ASV is a 2-meter *self-navigating* sailboat designed for ocean research data collection.

The Nav2 platform is a dual propulsion ASV and can perform short to long duration missions in the open ocean, coastal areas, inland waterways and lakes. Only 85 lbs and drafting 2.5 ft (.75 m), the Nav2 is easily handled by two people and supports a wide variety of sensor payloads.

## Specifications and Capabilities

- ✓ **Ease of Use:** Launch and retrieve from beaches, docks, boat ramps or vessels. Includes custom dolly.
- ✓ **Sensors Included:** Meteorological, GPS, PRH, AIS
- ✓ **Optional Sensors:** Hydrophones, Fluorometers, O2, CT, ADCP and many other possibilities.
- ✓ **Speed:** 1-3 knots
- ✓ **Weight:** 85 lbs plus additional payload(s)
- ✓ **Length:** 2m (6.5')
- ✓ **Draft:** .75m (2.5')
- ✓ **Rigging:** Main + fractional jib in high visibility fabric, ultra-durable and chafe resistant lines
- ✓ **Main Sheet Control:** proprietary anti-jamming electric winch.
- ✓ **Rudder & Keel:** Shed fishing gear and weeds.
- ✓ **Mast:** Un-stayed, reinforced, carbon spar
- ✓ **Electric Drive:** 1-3 knot boost; brushless motor with Kort Nozzle propeller in protective housing
- ✓ **Power System:** 12 Volts, 35 W shade resistant solar array; 40-100 Ah LiFePO4 batteries
- ✓ **Mission Duration:** up to 6 months




## Command and Control

- ✓ **Communications:** Iridium SBD (Sat), Cell, and WiFi
- ✓ **UI:** Navocean's real-time chart-based iOS App + web portal
- ✓ **Control:** autonomous waypoint navigation with manual option
- ✓ **Dashboard:** location, speed, course, heading, true and apparent wind, pitch, roll, power use, battery and solar panel voltage, sail and rudder position, propeller RPM, connectivity status, waypoint distance and ETA
- ✓ **Charts:** integrated NOAA RNC charts included
- ✓ **Real-Time:** configurable telemetry and sensor data in real-time

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Sail and Solar ASV for Ocean Data Collection

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