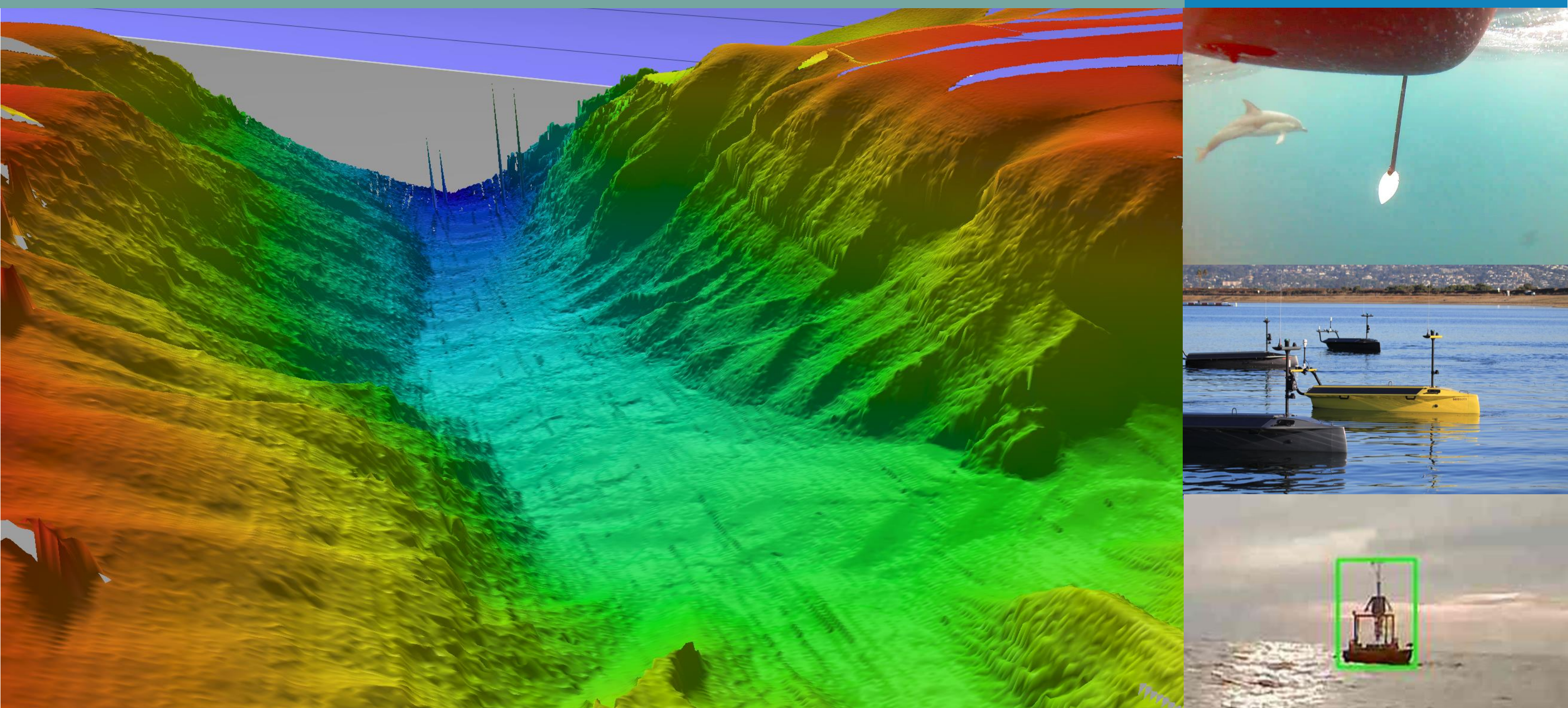


LIGHTFISH ASVs FOR BATHYMETRIC SURVEY



Above: highlights from various Lightfish missions.

The Lightfish is the first vehicle in Seasats' family of maritime systems. Its ease of use and persistence make it a dependable tool for low-logistics, rapid-turnaround bathymetric surveys in ports, harbors, canals, and channels.

Lightfish can be launched and recovered in minutes, acting alone or in constellations to survey areas thoroughly and efficiently. Carrying echosounders from Norbit, EdgeTech, and other industry leaders, Lightfish can deliver IHO Order 1a survey data with zero people on the water.

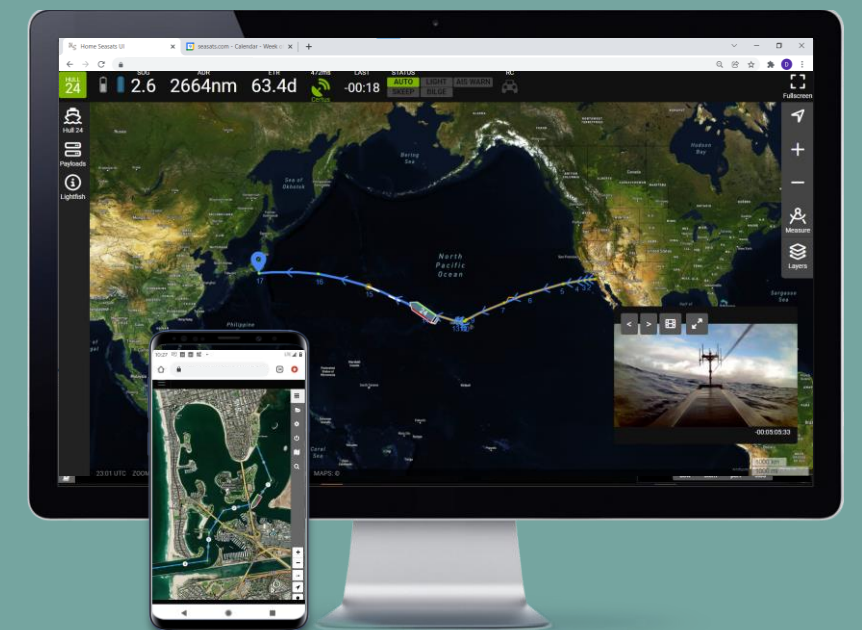
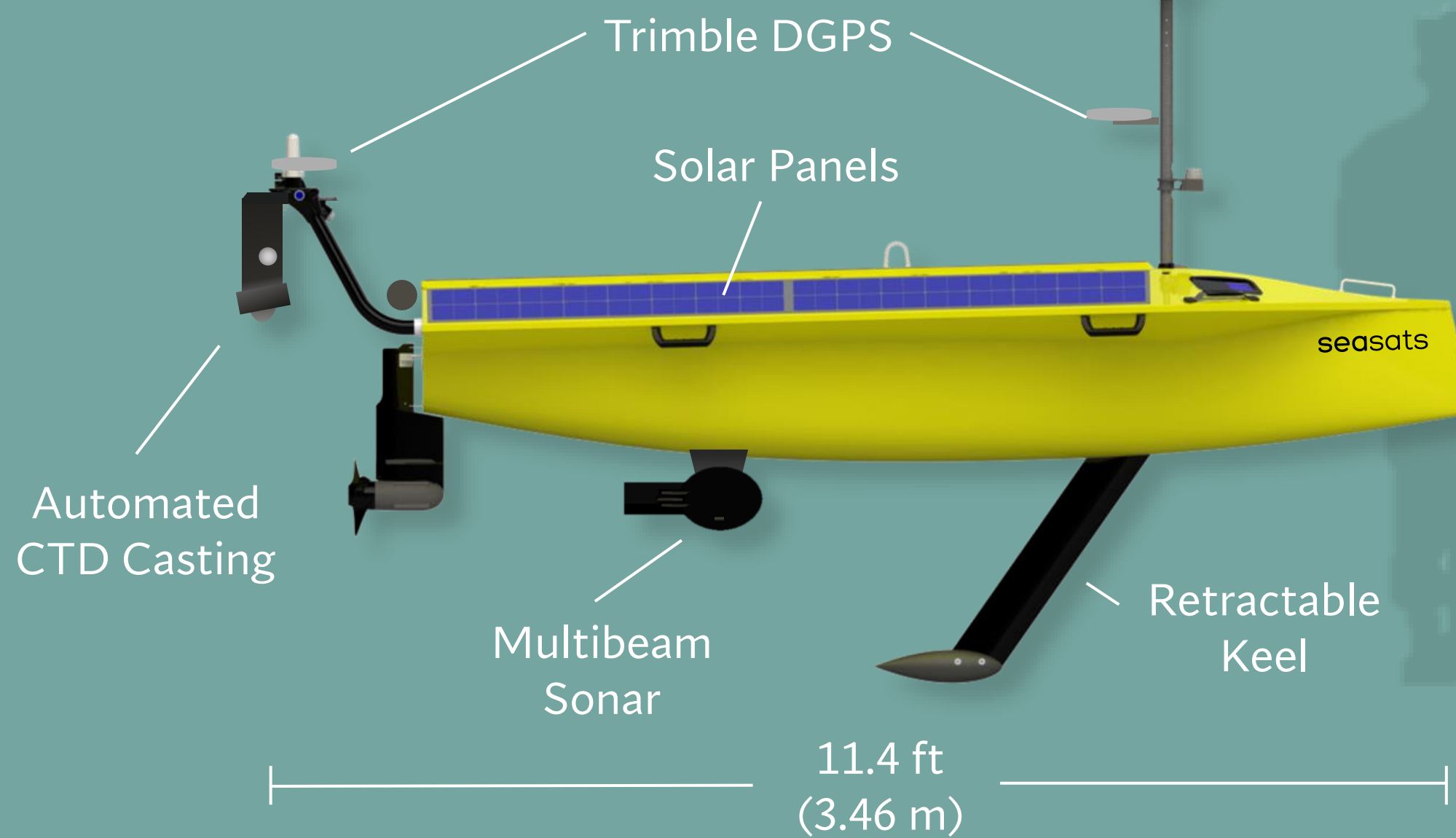


Norbit iWBMS mounted on a Lightfish

KEY CAPABILITIES

- Onboard solar recharging for long-duration, wide-area surveys without recovery or refueling
- Intuitive user interface enables rapid mission planning and data extraction
- Modular payload bay supports multi-sensor missions
- Man-portable size; no cranes or support vessels needed
- Proven through tens of thousands of miles of autonomous operations around the world





Seasats' UI is browser-based and flexible.

LIGHTFISH SPECIFICATIONS

Weight	270-354 lb (122-160 kg), configuration dependent
Endurance	6 months
Range	6,000+ NM
Speed	2.0 kt (cruise); 4.5 kt (max)
Motor	Torqeedo T1103
Sea States	Operable to Sea State 6+
Communications	Cell, Iridium, Starlink*, MANET radio*, Link 16*
Controls	Waypoint-based missions, manual heading + throttle, or RC control
Shipping & Handling	Transportable with pickup truck & 1-2 people. Ground/air/sea shippable.
User Interface	Browser-based and laptop/tablet/phone compatible; simple go-here commands, payload configurability, and advanced mission planning.
Cameras	5x above-water DWE exploreHD cameras; panning FLIR thermal*; underwater DWE exploreHD*
Batteries	2x 2.0 kWh; lithium-ion
Solar Panels	415 W nominal power output
Onboard Generator	100W output; 11 kWh or 28 kWh* capacity
Safety Features	AIS broadcast, receive, and automated avoid; LiDAR object detection and avoidance; navigation light; independent backup tracker

