



Great Lakes
Research Center

Marine Research Assets Shared Facility (MRAF)



Shared Assets

Research/Survey Vessels

- R/V Agassiz - 36' Research Vessel with twin 200 HP diesel engines (use fee)
- S/V Soliton - 26' Workskiff pilothouse workboat, twin outboards, light lifting davit (use fee)
- S/V TBD - 18' aluminium, open deck workboat, single 150HP four-stroke outboard
- 10' Aluminum Pontoon w/ trolling motor, 8' Rigid Inflatable Boat (RIB) w/ 15 HP outboard

Marine Autonomy/Remotely Operated/Motor-Vehicles

- L3 OceanServer Iver-3 - Autonomous Underwater Vehicle (AUV), w/SS, camera (use fee)
- Ocean Infinity Armada 8 ASV, gyro stabilized (ASV C-Worker 8, OI cooperative agreement)
- Boeing Liquid Robotics SV2 WaveGlider ASV (NOAA GLERL cooperative loan)
- SimpleScan 30i ASV w/ survey grade single beam sonar
- Remotely Operated Vehicles (ROVs) - Outland 1000 (2) w/ 500' & 1000' umbilicals
- Heavy Duty Trucks, Snowmobile, Quad ATV

Sampling/Field Equipment

- Water/Bottom Sampling - Niskin, Van Dorn, Go-flo, ponar, box corer, plankton nets
- Drop Cameras/Mountable Cameras - fish cams, GoPro's, deep water streaming video
- Portable Generators - Diesel (7 kW, 54A, 120/240V), Gas (30A, 120V), Battery (30A, 120V)

Marine Sensors/Acoustics

- Current Meters (ADCPs/TCMs) - Nortek AWAC, Nortek Aquadopp, Nortek Vector, Lowell
- EdgeTech 4205 Side-scan sonar towfish - advanced bottom mapping sonar
- USBL (Ultra-short Baseline) subsea positioning system, beacons, pingers, hydrophone
- Multi-parameter Sondes - YSI EXO2, Sontek CastAway CTD

Location and Staff

On The Water Research Facilities

- Docking, deep water moorage, 2 ton heavy lift pier davit, walk-out access to vessels and docks, immediate access to labs and workspaces. Temporary office space.

Professional Technical Staff

- Electrical, Computer, Software, and Mechanical Engineers, Marine Technicians, Survey Vessel Pilots, USCG Licensed Captains, Trained AUV/ASV/ROV pilots.
- Proposal support, project scoping, feasibility, budgeting, project management. Post award support of field efforts, work in all five Great Lakes and Coastal Oceans, data analysis, project reporting support.



Please visit: <http://www.mtu.edu/greatlakes/shared-facilities/marine/> or email jameya@mtu.edu for full equipment lists, staff bios, select use fees, and further contact information.