Seafloor Mapping Functions

› Reson 8101 multibeam bathymetry and sidescan sonar

› EdgeTech 260 sidescan sonar

› Hyball ROV (Remotely Operated Vehicle)

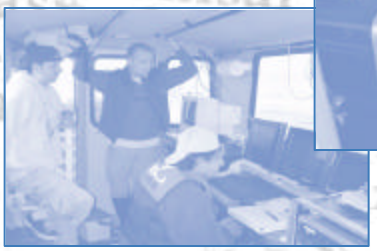
› ORE Trackpoint II+ acoustic underwater positioning and navigation

› Triton-Elics sonar acquisition system

› Hypack hydrographic survey software

› Trimble 4700 GPS (RTK and DGPS capable)

› PONAR sediment grab



Vessel Specifications

› Make and Model: SeaArk, Little Giant

› Length: 32 ft. overall, with a 27 ft. hull

› Draft: 1.5 ft.

› Beam: 8.5 ft.

› Fuel: 100 gals regular gasoline

› Gross weight: 10,000 fully equipped

› Engines: twin Honda 130 hp, counter rotating, 4 stroke outboards that meet EPA emission standards for 2004

› Top speed: 34 knots. Survey speed: 8-12 knots. Cruising speed: 18-28 knots, depending on sea conditions

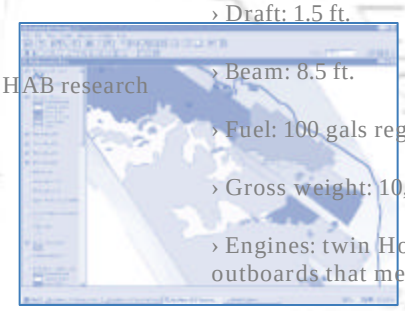
› Electrical power: 30 amps 110VAC, 12VDC

› Electronics: PC-based Nobeltec/Sitex navigation includes fully integrated GPS, digital charting, radar and autopilot

› Safety & radio equipment: EPIRB, liferaft, flares, UHF radio, submersible GPS and UHF radios

Dive Platform

› SCUBA platform for NSF/NOAA ECOHAB research



Research Aboard ESSP's

Equipped with the same **state-of-the-art** sonar mapping & ROV technology found on large hydrographic research vessels, but here in a towable configuration designed for nearshore shallow water habitat work. The R/V MacGinnite was specifically designed for work in the Elkhorn Slough, our living laboratory for CSUMB's seafloor mapping class. She has worked throughout the San Juan Islands in Washington State, the Farallons and Channel Islands in California, as well as numerous coastal sites along the West coast.

R/V MacGinnite

SEAFLOOR MAPPING LAB
CSU MONTEREY BAY