

***R/V PETREL* survey vessel and oceanographic workboat**



Vessel Name: *R/V Petrel*
Builder/outfitters: SW Boatworks/Jersey Cape Yachts/Patriot Marine
Designer: Calvin Beal Jr.
Hull Construction: Fiberglass
Owner: Stockton University
Classification: US Documentation and USCG Oceanographic Research Vessel documentation
Delivery Date: March 2016

Mission: Marine survey, near-shore and estuarine oceanography, marine science education

Length: 36' Beam: 14'
Depth: 2' Draft: 4'
Deck weight limit: 4,000 lbs.
Main Propulsion: Single screw, Cummins QSC8.3 @ 550hp/3000rpm
Marine Gear: ZF 286A 2.5:1 with trolling valve
Propeller: 27 x 33 x 2.25 4-blade from S&S Propeller N.Y.
Speed: 16-17 kt. Cruise with minimum forward motion down to 2 kt. for survey work

Service Power: Westerbeke 10KW
Steering System: Glendenning electronic controls

Accommodations: Two bunks, two reclining sleep chairs, enclosed head, microwave/coffeemaker. Sleeps up to 5-6 for overnight trips and transit. No private rooms available.

Electronics/Navigation Equipment; Furuno MFD 12 and MFD 8 complete navigation package (plotter, radar, and sounder). Hemisphere VS330 GPS system. CODA octopus F175 T-2 motion reference unit for survey operations. Marine survey navigation provided by on-board computer utilizing HYPACK, CTI and QPS marine survey software programs.

Anchor tree; double anchor system provided by Patriot Marine and Good Anchor Windlass, Waretown, NJ and Barnegat, NJ.

Lifting equipment; Pullmaster PL5-12-211-6D winch with freefall. A-frame with 10' deck clearance and 2000 lb. capacity.

Survey and sampling equipment:

- Hemisphere VS330 GNSS system with Coda F175 MRU
- Side mounted aluminum plates and davit sleeves for multiple over-the-side survey and lifting equipment needs (both port and starboard sides)
- Edgetech 6205 combined side scan/multibeam sonar for hydrographic survey
- Klein 3900/marine magnetics side scan sonar, 25 and 100m cables available
- Marine Magnetics Explorer marine magnetometer with side scan integration
- Seabotix LBV six thruster 300m inspection class ROV
 - forward scanning sonar, video scaling laser, Tritech USBL navigation system
- Teledyne Sentinel V and RiverPro Acoustic Doppler current Profilers for oceanographic research
- YSI multi parameter sondes and CTD's
- Assorted bottom grabs for sediment work
- Biological sampling gear: trawl nets, plankton nets and counters

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The *R/V Petrel* is a Downeast-style lobster boat design, mono-hull with a large keel and a flat/wide design aft with an open transom. It is a stable and roomy platform for its overall length of 36 feet. The vessel is uniquely outfitted with a comfortable and spacious indoor survey station yet maintains a 14' x 12' open deck for overboard work.

The *R/V Petrel* is well outfitted for hydrographic surveys, scientific diving, current profiling, deployment of mooring systems and buoys, sediment sampling, biological sampling, marine mammal surveys, avian surveys, shell planting and marine science education.

Stockton works collaboratively with visiting scientists, outside groups, agencies and consulting firms to meet their research, educational or vessel of opportunity needs in New Jersey's coastal waters. For more information contact the Marine Operations Manager:

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