R/V PETREL near-shore 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:	Uninspected vessel with 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’
Main Propulsion:	Single screw, Cummins QSC8.3 @ 550hp/3000rpm
Marine Gear:	ZF 286A 2.5:1 with trolling valve
Propeller:	27 x 37 x 2.25 4-blade from S&S Propeller N.Y.
Speed:	16-17 kt. cruise
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). Trimble SPS 461 survey-grade GPS system with cellular data correction. CODA octopus F175 T-2 motion reference unit for survey operations. Marine survey navigation provided by on-board computer via HYPACK marine survey software and helm-mounted monitor.

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:

- 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 Petrel and its crew are available for research, training and educational trips through mutual agreement arrangements.

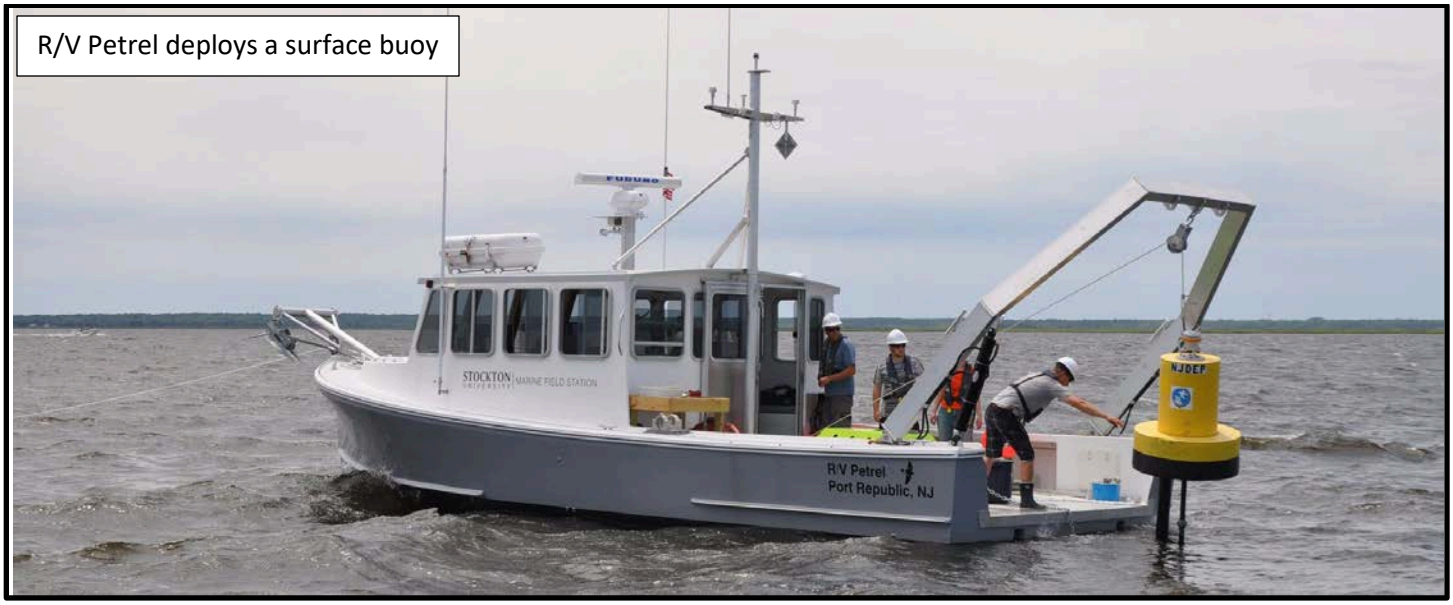
The R/V Petrel is well-suited for hydrographic surveys, scientific diving, current profiling, deployment of mooring systems and buoys, biological sampling, sediment sampling, shell planting and marine science education.

Stockton works collaboratively with visiting scientists and outside groups through mutual agreements. If you have a research or educational need contact the Field Station Manager for more information:

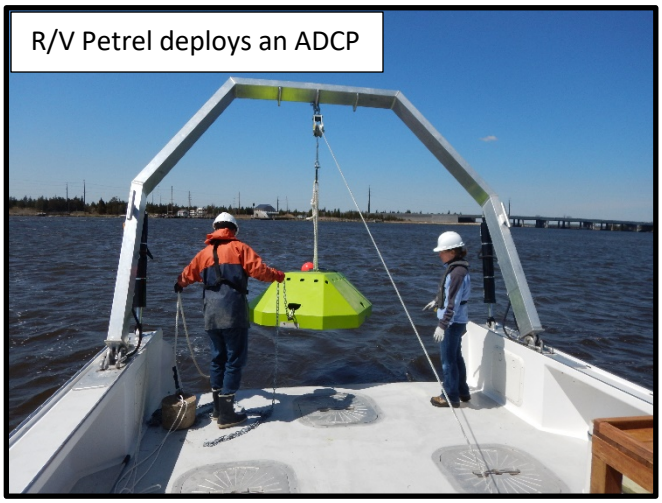
Steve Evert, Manager
Stockton University Marine Field Station
30 Wilson Ave., Bldg. 504
Port Republic, NJ 08241

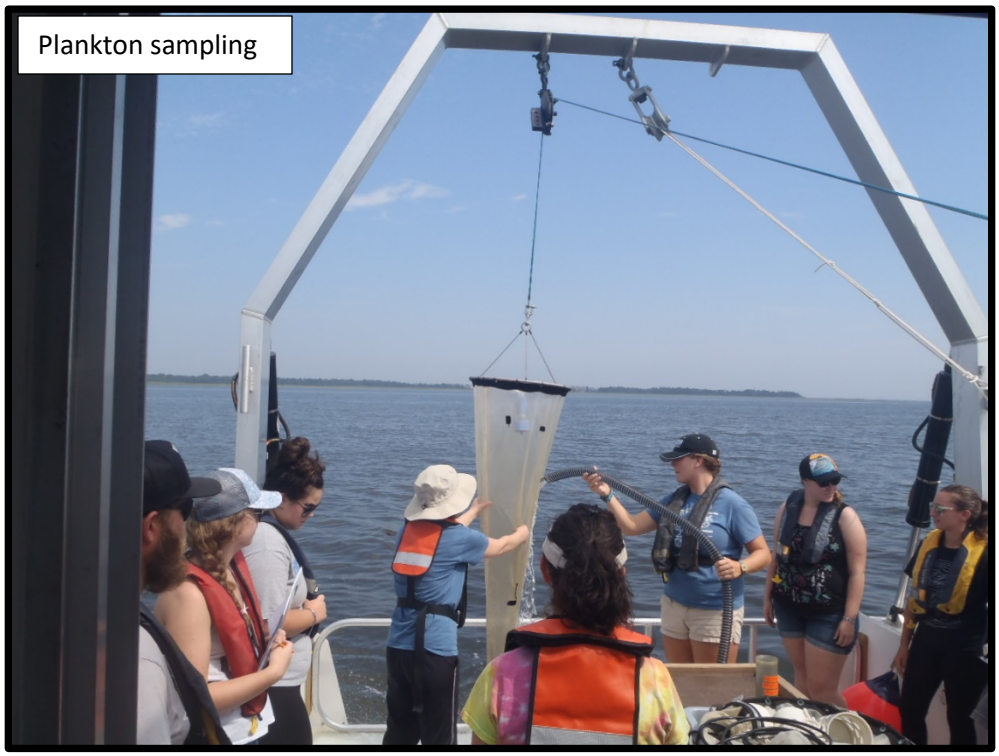
609-652-4486 (office)
609-618-1891 (cell)

R/V Petrel deploys a surface buoy



R/V Petrel deploys an ADCP



Survey station

Plankton sampling