R/V *Pelican*

Virginia Institute of Marine Science
College of William & Mary

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VIRGINIA INSTITUTE OF MARINE SCIENCE
SCHOOL OF MARINE SCIENCE

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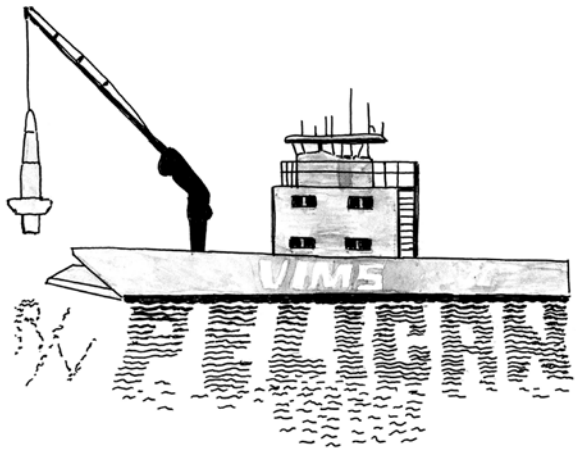


Cover photo: R/V Pelican *towing seismic equipment mounted on catamaran for shallow water profiling*

The Virginia Institute of Marine Science

The Virginia Institute of Marine Science (VIMS) has a three-part mission to conduct interdisciplinary research in coastal ocean and estuarine science; educate students and citizens; and provide advisory service to policy makers, industry, and the public. The VIMS School of Marine Science (SMS) is the professional graduate school in marine science for the College of William & Mary. Chartered in 1940, VIMS is currently among the largest marine research and education centers in the United States.

Vessel Service Center

VIMS maintains a fleet of 40 vessels. The 74 ft. R/V *Pelican* is the largest vessel in this fleet to conduct research in the Chesapeake Bay and its tributaries as well as along the Atlantic coast.

Buoy deployment

Class cruise

R/V Pelican *lands in lower Bay.*

R/V *Pelican*

History

VIMS acquired the R/V *Pelican* through Federal Surplus in 2003. Generous donations from private individuals allowed the vessel to be redesigned and outfitted to support a variety of research activities. This vessel has successfully served as a coring platform vibracoring the surf zone, in seismic surveys along the Atlantic coast, and in numerous buoy deployments and recoveries. The R/V *Pelican* has served as a floating classroom allowing educators an opportunity to involve large groups of students directly in marine science fieldwork. The vessel's homeport is at the Virginia Institute of Marine Science on the York River, Gloucester Point, Virginia.

R/V Pelican *underway with seismic equipment*

R/V Pelican *deploying vibracore*

Oyster cage deployment

General Description

The R/V *Pelican* is constructed of aluminum with nine watertight compartments for flooding isolation. Special features include a 24' x 17' (7.3m x 5.2m) working deck, a crane with a 9-ton lifting capacity, a hydraulic bow ramp which can be lowered to water level for ease of deploying and retrieving scientific gear, and four hydraulic anchor winches, enabling pinpoint vessel positioning. The deckhouse has three levels: a lab space located on the working-deck level measuring a spacious 18' x 12' (5.5m x 4.9m); An accommodations space on the second level has eight berths, full modern galley, spacious head with sink and shower, and a salon featuring a large table for dining; the uppermost level features the pilothouse and a 360-degree walk-around observation platform affording full view of all working decks. The pilothouse has a large workstation for the chief scientist. Electronic engine and steering systems allow remote control of R/V Pelican's steering and propulsion through a 30' umbilical cord. Wireless remote controls for the crane and four anchor winches allow full operation from anywhere onboard.

Lab area and head

Sleeping accommodations

Salon

Galley

Vessel Specifications

Length: 74’ 3” (22.6m)
Beam: 21’ (6.4m)
Draft: 4’6” (1.4m)
Fuel: 2,060 gals. (7,795 l)
Water: 840 gals. (3180 l)
Speed: Cruising 9-10 kts. (16.5-18.5 km/hr)
Max 12 kts. (22 km/hr)
Range: 103 hours cruising
Endurance: 5 days
Accommodations: 8 bunks
Propulsion: (2) 12 V 71N Detroit Diesels
Generator: 8kw 240v single-phase
45kw 240v three-phase

Electronic Navigation Aids

Radar: Furuno model FR-7112 (w/ARPA)
GPS: Garmin Chart Plotter 3210
Garmin Chart Plotter 2010C
Sounder: Furuno depth sounder model FCV-600L
Autopilot: Robertson AP35
Electronic Charts: The CAPN
AIS: SeaCas dual band receiver
Cellular Phone Antenna Booster
VHF Radio: Icom IC-M504,
Icom IC-M402
SSB Radio: Icom IC-M802
Intercom System: Standard model LH5

Hotel Equipment

Heating and air-conditioning/all cabins
Large chest freezer
Fully equipped galley
LCD flat screen monitor with DVD player
Instantaneous water heater

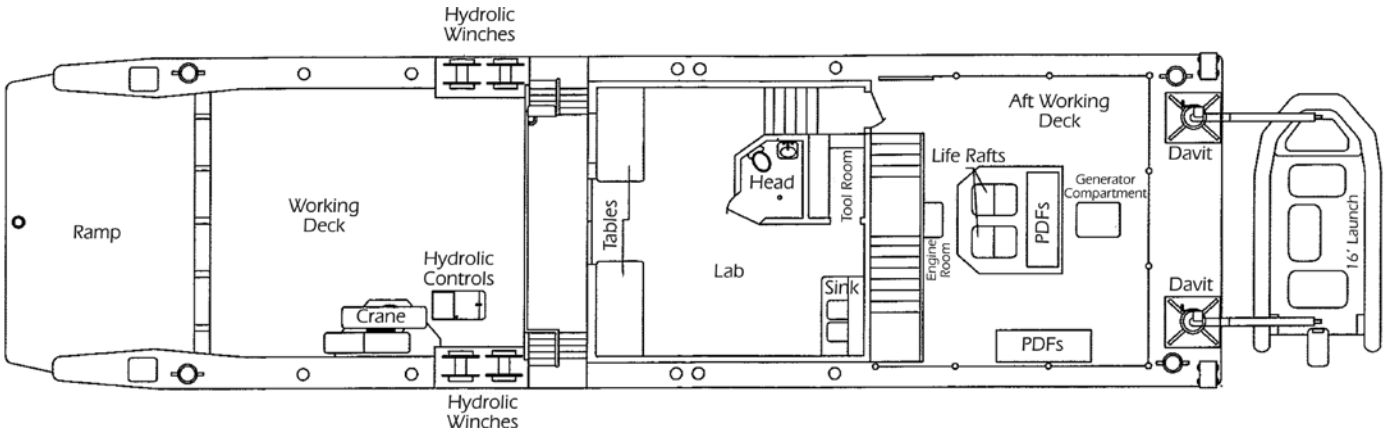
Deck Gear

Aft Deck: (2) Davits (manual winch)
(2) Life rafts
(2) PFD Deck boxes
(2) Anchors
Emergency Anchor
Saltwater wash down pump
Launch: Vessel is equipped with 16’ rigid hull inflatable with 25hp outboard engine
Fore Deck: (4) Hydraulic winches
(2) Anchors
19’ x 12’ Hydraulic Ramp
Palfinger Marine Crane PK 32080M
18,740 lb. (8,490kg) lift capacity/
46’7” (12.2m) reach

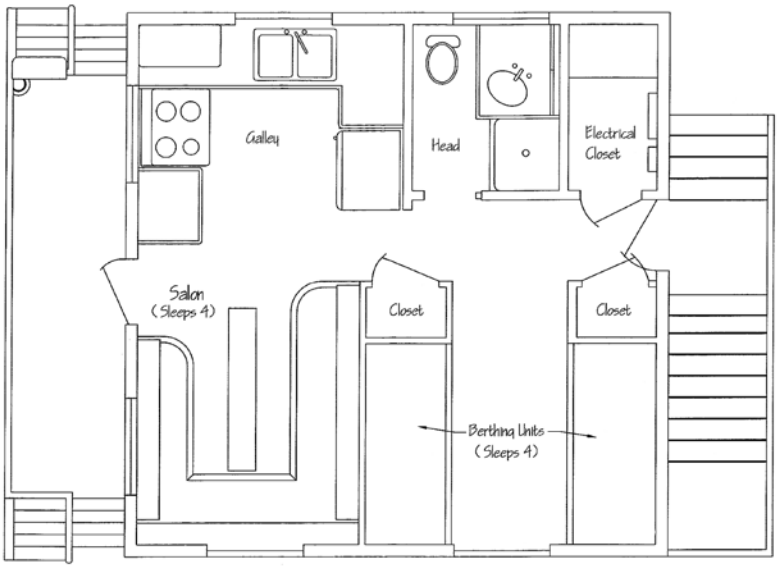
Pilothouse view aft

R/V *Pelican* Plan Views

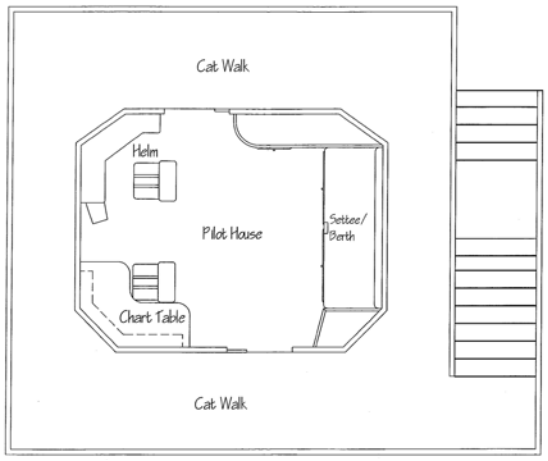
Plan view - Deck



Accommodation space



Pilot house

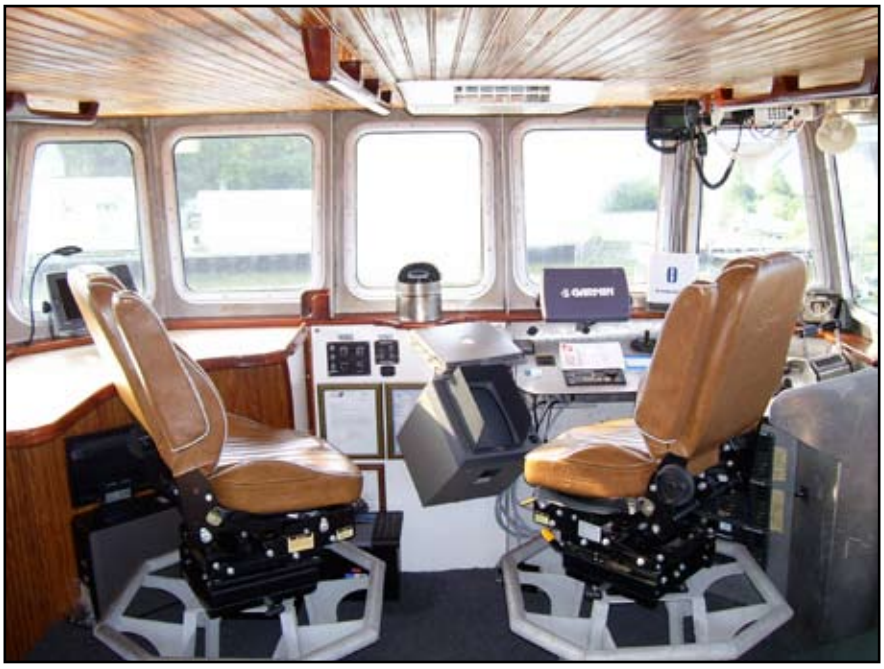


Vessel Policy

As a member of the University-National Oceanographic Laboratory System (UNOLS), VIMS will strive to comply with UNOLS guidelines for the operation of its vessels. All personnel including faculty, staff, and students, as well as contractors, volunteers, visitors, or governmental agency representatives must adhere to the applicable sections of the Vessel Operation, Training and Safety Policy manual. Alcoholic beverages and illegal drugs are not permitted aboard Institute-owned vessels.

The Master of the ship has plenary and final responsibility for the safety of the vessel and all personnel on board, both crew and scientific personnel. The chief scientist on board will be responsible for the scientific mission, including conduct of scientific personnel, organization, scope of work, and working with the Master to work out all details of how the work shall be performed. All personnel are expected to participate in maintaining a clean and safe vessel.

All scientific diving conducted from the R/V *Pelican* will comply with the standards of the American Academy of Underwater Sciences and VIMS Guide for Diving Safety. All other diving shall be conducted by outside contractors and in accordance with OSHA guidelines for commercial diving.



Pilothouse view forward

Vessel Scheduling

The R/V *Pelican* is intended to support research throughout the Chesapeake Bay and along the Atlantic Coast between Maine and Florida. Representatives of outside agencies interested in chartering the vessel should speak with a representative of the Vessel Service Center to outline sampling requirements along with vessel availability. If discussion indicates the R/V *Pelican*'s capabilities are appropriate to the research needs of the outside agency, a letter should be addressed to the Marine Superintendent requesting authorization for use of the R/V *Pelican*. A completed Research Vessel Scheduling Request form, provided at the end of this document, should be submitted along with the letter.

The request form is also available online at:
http://www2.vims.edu/vessels/large/

Contact information:

George Pongonis, Marine Superintendent:	(804) 684-7054,	pongon@vims.edu
Sharon Miller, Port Captain:	(804) 684-7055,	smiller@vims.edu
Vessel Service Center Office	(804) 684-7056,	
R/V *Pelican*:	(804) 815-3224	
Vessel Service Center fax	(804) 684-7195	

Correspondence and inquires may be directed to:

Marine Superintendent
Vessel Service Center
Virginia Institute of Marine Science
P.O. Box 1346
Gloucester Point, VA 23062

Virginia Institute of Marine Science

Research Vessel Scheduling Request

Submitted by:_____Telephone number:_____

Research vessel requested:_____

Purpose *(project title and brief outline of scientific goals/objectives)*_____

_____

_____

_____

Location of proposed field work operation:_____

_____

Attach a page size track chart which portrays your intended field work voyage.

Proposed Schedule of Vessel Activity:

Minimum number of ship days needed:_____

(Do not include load, transit or off-load days)

Optimum inclusive dates for field work: _____

Acceptable alternative dates:_____

Give a brief narrative of your proposed work day including: length of day, positioning requirements, data collection plans, and estimated on station time requirements.

On Board Equipment requirements:

Crane requirements: _____

Electrical power: _____

Navigation aid requirements:_____

_____

Data gathering equipment to be provided by scientific party.

Number of scientific personnel to be on board vessel: _____

_____

Print name, Principle Investigator *Date*

_____

Signature, Principle Investigator *Date*

Contact Information:

Agency: _____

Address: _____

Phone: _____

Fax: _____