R/V ARABELLA

LOA: 48 ft  LWL: 44.5 ft
Max Beam: 17.6 ft  Working deck: 20 x 15 ft
Open Transom: 13 ft  Draft: 5 ft
Displacement: 40,000 lbs  Fuel: 750 gal
Cruising speed: 10 kts  Max speed: 12 kts
Maximum range: 400 nm

ELECTRONICS INCLUDE:
- Garmin GPS 172C Plotter
- Northstar 800x Loran-C
- Simrad CP40 Plotter
- Datamarine Link System
- Furuno 36 mile Radar
- Datamarine Digital Depth Sounder
- ICOM VHF Marine Radios
- Robertson AP300X Autopilot
- Furuno FCV 582 Color Video Depth Sounder

SAFETY EQUIPMENT:
- Cold water immersion suits
- Life jackets
- Orange life ring
- ACR 406 Satellite E.P.I.R.B.
- Liferaft-10 person, USCG/SOLAS w/A-pack

R/V ARABELLA is a 48 ft (14.6 meter) fiberglass research vessel built in 1996 by Duffy and Duffy Custom Yacht, Brookline, Maine. Designed for nearshore operations, i.e., coastal to 50 miles offshore, the vessel is capable of supporting a wide range of scientific needs such as trawling, grab sampling, diving, seismic profiling, coring, AUV operations, etc.

R/V ARABELLA is powered by a single Detroit 12V71TA diesel engine. The vessel is capable of slow trolling speeds of 1 to 2 knots or cruising at 14+ knots. R/V ARABELLA also has an extensive hydraulic system to supply power to a large A-Frame, a single drum deck winch, a vertical capstan, bow thruster, and anchor windlass. A-frame lifting capacity is approximately 2500 lbs and can handle structures up to 10 feet height and with a foot print of approximately 8 feet. In addition, a mast and boom capable of over-the-side operations, (lifting capability of approximately 1000lbs) is available. AC electric is supplied by a single 12.5 Kw 3-phase, 208/110 v, 50 amp Northern Lights M4843 generator. Heating and air conditioning are provided by a Marine Air reverse cycle system. Diving activities can be supported. All diving operations are conducted in compliance with the Department of Marine and Coastal Science’s Standard Procedures for Scientific Diving Operations or the Association of Diving Contractors (ADC) Consensus Standards of Commercial Diving Operations.

R/V CALETA

LOA: 30 ft (2 ft overhang at open transom)  LWL: 26 ft
Max Beam: 11 ft  Working deck: 13 x 9 ft
Draft (I/O down): 3 ft  Displacement: 9300 lbs
Fuel: 150 gal

ELECTRONICS INCLUDE:
- Garmin 172C Plotter
- Sitex Amber Depth Sounder
- Furuno 1830 radar
- ICOM VHF Marine Radio
- Robertson Autopilot

SAFETY EQUIPMENT:
- Two 6 person coastal liferaft
- Cold water immersion suits
- Life jackets
- Orange life ring
- ARC Class B Satellite E.P.I.R.B.

R/V CALETA is a 30 ft (9 meter) aluminum vessel built in 1991 by Winninghoff Boats Inc, Rowley, MA. The R/V CALETA is designed for nearshore (up to 20 nm) and estuarine operations. The vessel is adaptable to a wide range of scientific needs such as trawling, benthic sampling, SCUBA diving, seismic profiling, coring as well as a host of other interests and needs. The vessel is powered by a single Volvo ADQ41B diesel engine and DuoProp out drive. R/V CALETA’s deck gear consists of an A-frame rated at 1000 lbs and a hydraulic winch with capstan rated at 1500 lbs lift capacity. A mast and boom is available with a lift capacity of 500 lbs.

FOR AVAILABILITY AND CHARTER FEES:
Rose Petrecca, Director of Marine Operations
phone: (609) 296-5260 ext 238  email: petrecca@marine.rutgers.edu
Ship Policies and Procedures

Operations:

The vessels are operated through the auspices of the Department of Marine and Coastal Sciences, Rutgers University. The onboard crew consists of a licensed USCG Captain and a mate/deckhand. Additional support personnel are the Director and Assistant Director of Marine Operations and several technicians.

Responsibilities: (UNOLS, Research Vessel Safety Standards 2009)

- Captain

By law, the captain of the vessel has the final responsibility for the safety and sanitation for the vessel and all persons aboard. Because of this he or she is also given the final responsibility over all operations and personnel, both crew and scientists. He or she may terminate an operation that he or she considers a hazard to the vessel, the vessel’s equipment or embarked personnel. Though the captain’s authority is absolute, he or she and the crew are there solely to assist in carrying out the scientific work.

-Chief Scientist

One member of the science party will be designated as the chief scientist for each cruise and will be responsible for the coordination of the entire scientific mission of the cruise. This includes supervising the scientific party onboard in matters of compliance with shipboard policies, safety, personnel, and exchange of information with the captain. When at sea, the chief scientist will consult with the captain regarding the progress of the scientific work, changes in the operational plan, assistance or any other action required to aid in the success of the scientific mission. The chief scientist will review the general shipboard safety requirements. He or she will be responsible for all hazardous materials and chemicals that the science party brings aboard the vessel, and will notify the captain and the Director of Marine Operations in advance of plans to bring such materials and chemicals aboard.

The chief scientist will develop the cruise plan that includes the equipment required, personnel to be involved, schedule, and station locations. He or she will discuss the operations with the captain and crew. The captain and chief scientist will jointly consider decisions affecting the safety and science. In general, they will choose a course of action together. In those situations where they do not agree, the captain's decision will take precedence.

The chief scientist will provide the captain with a copies of the Shipboard Scientific Personnel Form (with emergency contact numbers) prior to the vessel leaving the dock.

- The Scientific Party

The smooth operation of the science program requires good communications between science and the ship's personnel. It is important that all personnel are: well informed; give the captain as much advance notice as possible regarding station coordinates; and NEVER put any gear over the side without first consulting the captain. If a problem having to do with the scientific program arises, the scientific party will inform the chief scientist or whoever has been designated as in charge. All equipment will be secured to the bench or deck at all times in case of unexpected foul weather or abrupt ship maneuvers.
- Director of Marine Operations

The Director of Marine Operations is the first point of contact regarding project cruises. All vessel operations are scheduled and organized through the Director of Marine Operations. Safety measures including type of operations on any given cruise, number of personnel and students allowed on a particular trip, life jackets, etc., fall under the responsibility of the Director of Marine Operations and the captain. Other responsibilities include budgeting, billing, and coordination of research projects, ship repairs and media/VIP activities.

**Safety and Onboard Policy:**

All personnel will wear a floatation device (PFD), work vest, exposure suit or float coat, unless the Captain deems the conditions warrant they are not necessary. The type of floatation will be dictated by the work environment.

The Captain is responsible for all personnel, safety and protocols on board the vessels.

In the event of an onboard emergency (fire, collision, man overboard, etc.), the Captain will instruct personnel on the proper procedures.

Personnel engaged in launching/retrieving over the side equipment or moving weights on deck by A-Frame, boom, winches, etc., will wear proper footwear (no open-toed shoes allowed).

All science parties will prepare a float or cruise plan. This plan will be prepared by the person in charge of the science party. A copy will be given to the Director of Marine Operations and an additional copy will be placed in the main RUMFS office.

The captain will communicate to the Director of Marine Operations any changes (more than 1 hour) in routing information, breakdowns in propulsion equipment, emergencies, or changes to the mission plan.

Notification will be given to the Director of Marine Operations upon return to shore.

All wet diving operations must be approved by the Rutgers/DMCS Dive Safety Officer and the DMCS Dive Control Board.

The captain/operator of the vessel will not operate the vessel for more than 12 hours in anyone day. To exceed this limit, a second qualified captain/operator will be required to be aboard.

**Other Considerations:**

- **DO NOT** deploy any gear over the side without getting permission from the captain or mate.
- **DO wear** hard hat and a work vest, provided by the ship, when instructed by the crew, particularly when working on deck with gear hoisted overhead or in rough weather.
- **DO inform** the crew or chief scientist if you are feeling sea sick. For mild cases, going out on deck is frequently a cure. If you are sick overboard, make all attempts to go to the leeward (downwind) side of the ship.
- **DO inform the crew or chief scientist if you incur any injury, small or otherwise, so first aid can be applied and the captain can evaluate the need to return to port, if necessary.**
- **DO NOT put** any objects in the marine toilet that do not belong there.

ZERO TOLERANCE IS A CONDITION FOR CHARTER OF THE R/V ARABELLA and R/V CALETA.
All DMCS vessels are smoke-free environments.

Contacts:

R/V ARABELLA and R/V CALETA monitor VHF channels 16 and 79.

Rose Petrecca  
Director of Marine Operations  
Rutgers University Marine Field Station  
Office: (609) 296-5260 ext. 238  
Cell: (609) 529-1115  
petrecca@marine.rutgers.edu

Joseph Dobarro  
Assistant Director of Marine Operations  
Rutgers/IMCS Dive Safety Officer  
Rutgers University Marine Field Station  
Office: (609) 296-5260 ext. 239  
Cell: (609) 464-3708  
dobarro@marine.rutgers.edu

Captain John Pratt  
Rutgers University Marine Field Station  
Cell: (609) 846-8788

Captain Ken Roma  
Rutgers University Marine Field Station  
Cell: (609) 335-4828

Rutgers University Marine Field Station (609) 296-5260 Ken Able ext 230; Carol Van Pelt ext 228

ATLANTIC CITY COAST GUARD (609) 344-6595

BEACH HAVEN YACHT CLUB (609) 492-9101

Sea Tow Atlantic City (609) 839-1637
Float Plan

Date: __________    Vessel: ____________________

Personnel on Vessel:
_______________________________________________________________
_______________________________________________________________
_______________________________________________________________
_____________________________________________________________

Name of Research Project: ____________________
Destination(s): ______________________________
Purpose: ___________________________________

Departure Time: ______________
Estimated Time of Return: ______________
Actual Time of Return: ______________

Notes and problems/issues with Vessel:
_______________________________________________________________
_______________________________________________________________
_____________________________________________________________

Make sure that RUMFS office radio is on, and ensure that the monitoring channel is tuned to 79.

On land Contact Person _________________________________
Cell Phone Number_______________________________
SHIPBOARD SCIENTIFIC PERSONNEL FORM

R/V ___________________ Voyage No. ___________________ Date ___________________

Chief Scientist ________________________________________________________________

Title (Dr., Ms., Mr.) & Full Name ___________________________________________ Phone (Bus.) ___________________

Affiliation (Inst./Employer) __________________________________________________

E-mail ______________________________________________________________________

Position on Cruise ________________________________________________________ Student? Please Circle: Grad UnderGrad

Business Address ______________________________________________________________________________________

____________________________________________________________________________ ____________________

Person to Notify in Case of Emergency ______________________________________________________________________________

Relationship _________________________________________________________________________________________

Their Address _______________________________________________________________________________________

Phone ______________________________________________________________________________________________

The following information is REQUIRED and vital for post-cruise reports. PLEASE FILL OUT ACCURATELY

Is your work on this voyage part of the primary project, ancillary project, or other?

Full Title of Science Project ___________________________________________________________________________

Sponsoring Agency (NSF, ONR, etc.) ______________________________________________________________________

Grant/Contract Number _________________________________________________________________________________

Principal Investigator _____________________________________________________

Method of Payment for Cruise Expenses – P.I. _________ Purchase Order ________ Credit Card _________

Other ______________________________

Payment Method Details __________________________________________________________________________________

Medical Information: The undersigned acknowledges that he/she has no physical impediments or ailments which would prevent their performance of duties at sea. The Captain must be notified of any required prescription drug medication(s), allergies or dietary restrictions prior to the vessel sailing.

Not Applicable _______ Prescription Drugs (type)____________________________________________________________

Allergies ______________________ Dietary restrictions__________________________________________________

Insurance Coverage: Persons on board vessels operated by Rutgers University/Institute of Marine and Coastal Sciences (MCS) who are not employees or students of Rutgers/IMCS are considered SHIPBOARD GUEST INVESTIGATORS and are expected to make arrangements for all forms of insurance coverage while participating in research cruises. Rutgers/IMCS assumes no responsibility for non-employees; each must agree to hold Rutgers/IMCS harmless of all liability arising from participation in any voyage on an IMCS vessel.

Alcohol Policy: No alcoholic beverages of any type will be permitted. All personnel, including scientific staff from other institutions and visitors, are affected by this regulation and must abide by it.

Drug Policy: The Institute of Marine and Coastal Sciences is a Zero Tolerance organization. The possession or use of any controlled substance will not be tolerated.

Radioactive Materials Policy: No radio isotopes will be permitted aboard ship without prior approval from Rutgers REHS

Hazardous Material Policy: Scientists must provide ship with Material Safety Data Sheets (MSDS) for ALL Hazardous Materials.

Signature ____________________________________________________________ Date ___________________________
REQUEST FOR VESSEL TIME

Cruise/Project Title:

Principal Investigator: (include email address & phone number)

Institution/Agency and Grant#

Work Area (description and attach list Geographic Positions or chartlets)

Operational Objective/Cruise Description (Synopsis)

Chief Scientist and other Onboard Personnel (name and position)

Special Science Party Considerations

| 9 Medical Conditions | 9 Disabled Personnel | 9 Other (specify) |

Equipment Supplied by Project (please include approx. weights and dimensions)

Submitted by __________________________ Date ______________________

Send to: Rose Petrecca, Director of Marine Operations: petrecca@marine.rutgers.edu; (609) 296-5260 ext 238