CRUISE PLANNING MANUAL
R/V F.G. WALTON SMITH

JANUARY 2020

UNIVERSITY OF MIAMI
ROSENSTIEL
SCHOOL of MARINE & ATMOSPHERIC SCIENCE
## TABLE OF CONTENTS

### SECTION A – INTRODUCTION
1. GENERAL INFORMATION  
2. DIRECTORY OF RSMAS MARINE OPERATIONS  
3. LOCATION, LOCAL SERVICES, AND MAILING/SHIPPING LOGISTICS

### SECTION B - CONFIGURATION AND EQUIPMENT
1. GENERAL  
2. R/V F.G. WALTON SMITH CHARACTERISTICS  
3. OUTBOARD PROFILE  
4. DECK PLANS & PHOTOS  
5. WINCHES AND WIRE  
6. SHIPBOARD CRANES  
7. Stern "A" FRAME  
8. UNIQUE VESSEL FEATURES  
9. OTHER EQUIPMENT  
10. LABORATORIES  
11. NAVIGATION SYSTEMS  
12. COMMUNICATIONS  
13. WORKBOATS  
14. USER-PROVIDED BOATS

### SECTION C - TECHNICAL SUPPORT
1. EQUIPMENT USAGE  
2. MARINE TECHNICIANS

### SECTION D – DIVE OPERATIONS
1. RESEARCH DIVING

### SECTION E – HAZARDOUS MATERIALS
1. RADIOISOTOPES  
2. EXPLOSIVES, UNDERSEA SONIC EMITTERS AND DRAGGED DEVICES  
3. MATERIAL SAFETY DATA SHEETS  
4. LITHIUM BATTERIES  
5. MARINE MAMMAL PROTECTION ACT
SECTION F - VESSEL OPERATIONS
1. CREW
2. OPERATING HOURS
3. OPERATING DAYS
4. STAGING/LOADING & UNLOADING
5. MEALS AND CLEANING
6. GARBAGE AND TRASH
7. BERTHING
8. SAFETY AND RESPONSIBILITIES

SECTION G - PRE-CRUISE REQUIREMENTS
1. SHIP TIME REQUESTS & SCHEDULING
2. CONFIGURATION FORM & CRUISE PLAN
3. PARTICIPANTS FORM
4. FINANCING
5. FOREIGN OPERATIONS
6. PERSONNEL INSURANCE REQUIREMENTS
7. CUSTOMS AND IMMIGRATION

SECTION H - WHILE ABOARD
1. RESPONSIBILITIES OF CHIEF SCIENTIST
2. PERSONNEL RESPONSIBILITIES
3. MOVING ABOARD
4. FOR YOUR SAFETY
5. EMERGENCY SIGNALS
6. GOOD SAFETY HABITS

SECTION I - POST CRUISE REQUIREMENTS
1. SHIPBOARD CLEAN-UP PROCEDURES
2. OFFLOADING
3. DISEMBARKING
4. UNOLS’ POST CRUISE ASSESSMENT REPORTS
SECTION A - INTRODUCTION

1. GENERAL INFORMATION

The research vessel (R/V) F.G. WALTON SMITH is owned and operated by the University of Miami’s Rosenstiel School of Marine and Atmospheric Science (RSMAS). The R/V F.G. WALTON SMITH is a Coastal/Local Class vessel of the University-National Oceanographic Laboratory System (UNOLS) fleet.

This cruise-planning manual has been developed to provide the ship’s user with the arrangement and operational capabilities of the R/V F.G. WALTON SMITH. The manual delineates the various procedures, policies, regulations, safety, and lifesaving precautions for embarked personnel. All ship users should review this manual with regard to the specific requirements of the proposed project. As well, it is encouraged you review the UNOLS Research Vessel Safety Standards (RVSS) which can be found on the UNOLS website at https://www.unols.org/document/research-vessel-safety-standards-rvss. The RVSS provides the safety standards followed aboard the R/V F.G. WALTON SMITH.

If there are, any items required for a project that are not delineated in this manual or in the RVSS please contact any of the personnel listed in the Directory of Marine Operations Personnel. Comments and/or corrections that will help clarify any of this manual, or make it more user friendly, are welcome.

It is the sole purpose of the R/V F.G. WALTON SMITH’s support personnel to provide you with the very best platform and equipment to accomplish the scientific goals of the project. We are here to support your project and give you an exceptional mission experience.

Welcome Aboard,

Miguel McKinney
Director, Marine Operations
2. DIRECTORY OF RSMAS MARINE OPERATIONS

RSMAS MARINE OPERATIONS CONTACTS

Email: marops@rsmas.miami.edu  Phone: 305-421-4832

Miguel McKinney  Director  mmckinney@rsmas.miami.edu
Jocy Morejon  Manager  jmorejon@rsmas.miami.edu
Don Cucchiara  Marine Technician  dcucchiara@rsmas.miami.edu
Rick Riera-Gomez  Diving Safety Officer  rgomez@rsmas.miami.edu

Marine Operations
  Ship Time Requests  Primary PI Contact
  Scheduling  Daily Ship Communications
  Cruise Plans  Ship Time Requests
  Ships Configuration Form  Secondary PI Contact
  Foreign Clearances  Financing & Billing
  Ship’s Agent  Insurance
  Shipping/Receiving & Logistics  Cruise Reports & Responses

Marine Technicians
  Scientific Equip & Computers  Scientific Instrumentation
  Acoustic Sounders & Recorders  Data Logging
  Voice/Data Communications

Diving Safety Office
  Diving Technical Assistance  Compressor & Air Banks
  Diving Equipment  Certification & Dive Plan Approval

OTHER SUPPORT

Edward Pombier, UM Radiation Safety Officer
  Email: epombier@miami.edu  305-243-6369
  Authorization  Plan Approvals
  Protocol  Information and Instructions

Pilar Schuitema, UM Risk Management
  Email: pschuitema@miami.edu  305-284-2067
  Insurance Requirements  Participant Authorization
3. LOCATION, LOCAL SERVICES, and MAILING/SHIPPING LOGISTICS

Location
The map below shows the local Miami area and where the University of Miami’s Rosenstiel School of Marine and Atmospheric Science campus, or RSMAS, is located (“A” star on map). The RSMAS campus is on the southeast corner of Virginia Key, next to the Miami Seaquarium. The address is 4600 Rickenbacker Causeway, Miami, FL, 33149-1031. RSMAS serves as the homeport for the R/V F.G. WALTON SMITH.

If you are flying to the area the closest airport to RSMAS is the Miami International Airport (MIA airport code) which is located 13 miles northwest of the RSMAS campus (upper left corner in map above). An alternative airport is Fort Lauderdale/Hollywood International Airport (FLL airport code) which is located 32 miles north of RSMAS. For U.S. domestic flights, FLL has a tendency to be less expensive than flying into MIA. Both airports can provide regular taxi service to RSMAS. Both airports offer Uber or Lyft services that offer a much cheaper alternative than regular taxis. Car rentals are available at each airport.

If driving by car to RSMAS, the Rickenbacker Causeway, the roadway RSMAS is located on, is a toll road. The tollbooth offers only payment with an electronic toll
collection unit called SunPass or a “toll by plate” option. We recommend the option of renting a SunPass unit from the car rental company.

After the toll plaza, you will go over a large bridge. Once over the bridge you are now on Virginia Key. The RSMAS campus is located at the second traffic light on the right side. Upon entering the campus, please stop at the Campus Safety shelter (to your left as you enter the campus) for a parking pass and directions to the ship.

Local Services
The area around the RSMAS campus offers all amenities that can be expected when in a large city. The closest area for shopping and dining is the town of Key Biscayne, located approximately 4 miles southeast from RSMAS. There is an abundance of the same services offered in the nearby communities of Brickell (5 miles northeast) and Coconut Grove (8 miles southwest).

There are many options for lodging in the area. The closest hotel is the Hilton Garden Inn Miami Brickell South, 2500 Brickell Avenue, 305-854-2070 (https://hiltongardeninn3.hilton.com/en/hotels/florida/hilton-garden-inn-miami-brickell-south-MIAKBGI/index.html?SEO_id=GMB-GI-MIAKBGI)
This is the closest hotel to RSMAS (3 miles) however; there are not many amenities close to this location. We recommend staying in the community of Coconut Grove with its many hotel choices and an abundance of restaurants, nightlife, cinemas, and many other amenities (most within walking distance of each other).

Hotels in the Coconut Grove area include:

Hampton Inn, 2800 SW 28th Terrace, Coconut Grove, 305-448-2800
http://www.hamptoninncoconutgrove.com/

Courtyard by Marriott, 2649 South Bayshore Drive, Coconut Grove, 305-858-2500

Residence Inn by Marriott, 2835 Tigertail Avenue, Coconut Grove, 305-285-9303

The Mutiny Hotel, 2951 South Bayshore Drive, Coconut Grove, 305-441-2100
http://www.providentresorts.com/mutiny-hotel/

The Sonesta, 2889 McFarlane Road, Coconut Grove, 305-529-2828
**Mailing/Shipping Logistics**

Arrangements must be made with Marine Operations for the receiving, shipping and storage of equipment and/or material for your upcoming cruise. Contact Marine Operations to ensure proper handling and storage of all your equipment. Marine Operations has limited storage space on campus thus, it is requested you do not ship equipment too far ahead of time. Freight deliveries are accepted Monday to Friday from 0900 to 1600. Prior arrangements must be made for shipments received outside these hours.

Forklift and crane equipment is available for shipments with individual items weighing no more than 8,000 pounds. For individual items weighing over 8,000 pounds, it will require outside services (forklift, crane, and dockage services) for loading and unloading. The project will be responsible for any additional charges (forklift, crane, dockage, etc.) incurred when loading/offloading heavy loads.

For mail and freight deliveries/pickup, please use the following information:

All mail and overnight deliveries should be addressed to:

University of Miami/RSMAS  
Marine Operations (hold for “Your Name”)  
4600 Rickenbacker Causeway  
Miami, FL 33149-1031  
305-421-4832

All freight delivers should be addressed as follows:

University of Miami/RSMAS  
Marine Operations  
4600 Rickenbacker Causeway  
Miami, FL 33149  
305-421-4832  
For R/V F.G. WALTON SMITH Cruise # XXXXX  
Hold for: [P.I.’s NAME]

All shipments must be prepaid. No CODs can be accepted.
SECTION B - CONFIGURATION AND EQUIPMENT

1. GENERAL

The University of Miami took delivery of the R/V F.G. WALTON SMITH in January 2000 from Eastern Shipbuilding Group at Panama City, Florida. The R/V F.G. WALTON SMITH operates under the Code of Federal Regulations, 46 CFR Subchapter "U" (Uninspected Vessels) and carries a USCG letter of designation as an oceanographic research vessel.

2. R/V F.G. WALTON SMITH CHARACTERISTICS

<table>
<thead>
<tr>
<th>Design</th>
<th>Aluminum hulled catamaran</th>
</tr>
</thead>
<tbody>
<tr>
<td>Length</td>
<td>96' / 29.26 m</td>
</tr>
<tr>
<td>Breadth</td>
<td>40' / 12.19 m</td>
</tr>
<tr>
<td>Draft</td>
<td>7' 0&quot; / 2.13 m</td>
</tr>
<tr>
<td>Gross Tonnage</td>
<td>97 GRT; 325 GT ITC</td>
</tr>
<tr>
<td>Propulsion</td>
<td>Twin Cummins QSK 19 – 760 hp each</td>
</tr>
<tr>
<td>Propellers</td>
<td>Servogear variable pitch</td>
</tr>
<tr>
<td>Electrical</td>
<td>Twin 80kw generators 208 VAC, 3 phase,</td>
</tr>
<tr>
<td></td>
<td>110/120 VAC, single phase</td>
</tr>
<tr>
<td></td>
<td>UPS in laboratories</td>
</tr>
<tr>
<td>Fresh water</td>
<td>3,000 gallons (11,500 L) - Reverse Osmosis water maker</td>
</tr>
<tr>
<td>Fuel</td>
<td>10,000 gallons (37,854 L)</td>
</tr>
<tr>
<td>Complement</td>
<td>21 berths – 7 crew &amp; 14 science party</td>
</tr>
<tr>
<td>Speed</td>
<td>8.5 average knots cruising</td>
</tr>
</tbody>
</table>

3. OUTBOARD PROFILE
4. DECK PLANS & PHOTOS

LOWER DECK

MAIN DECK