



Florida Institute of Oceanography

Annual Report

FY 2010 – 2011

July 1, 2010-June 30, 2011

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Mission of the Florida Institute of Oceanography (FIO)

The FIO mission is to (1) provide a diverse and collaborative statewide forum for addressing issues of concern in coastal oceanographic research and education; (2) leverage and integrate existing physical and intellectual resources within the State University System (SUS) and throughout Florida; (3) anticipate and plan for future infrastructure needs; (4) facilitate, promote and support collaborative ocean-related research and education statewide; and (5) develop and strengthen networks that enable timely identification of oceanographic research opportunities and distribution of research results and other information to the general public, natural resource management agencies and local, state and national policymakers.

To achieve this mission, FIO facilitates access to major marine research and educational capabilities and facilities throughout the State, including the operation of sea-going vessels and a full-service marine research and education center for coastal ocean research, and promotes research, education, economic development, and environmental sustainability of Florida's coastal ocean. FIO enables the SUS to provide a virtual intellectual and physical hub for the mature and diverse marine science enterprise that exists in the state to work together on assorted endeavors, such as applying for grants.

FIO facilitates effective collaboration among various coastal, marine and oceanographic components of the SUS and with other marine research and educational entities. FIO provides statewide leadership in helping Florida's citizens and policymakers understand critical issues related to:

- The impact of clean oceans and beaches on the state tourism industry;
- Risks associated with hurricanes and tropical weather;
- Red-tide blooms;
- The health of living marine resources such as coral reefs;
- The health and economic importance of recreational and commercial fisheries and aquaculture;
- Impact of offshore oil drilling;
- Impact on living marine resources, human health and agriculture from freshwater usage, estuarine and coastal water quality;
- Ocean acidification;
- The relationship of coastal ocean currents to effective search and rescue operations;
- Sea-level rise; and
- Global warming

This FIO annual report covers the fiscal year 2010-2011.

Summary of Activities for Fiscal Year (FY 2010-11)

A. Administration and Planning

FIO underwent a complete administrative restructure during FY 2010-11. On January 3, 2011, Dr. William Hogarth was appointed full-time as Interim Director of FIO. Prior to this date, Dr. Hogarth held a joint appointment; Interim Director of FIO and Dean of the USF College of Marine Science. Dr. Jyotika Virmani was appointed October 29, 2010 as Associate Director.

FIO implemented various administrative and planning actions during the fiscal year 2010-11 which included:

- A detailed assessment of FIO by the new management team identified that: FIO's financial deficit of \$1M was carried by the host institution-USF, repayment terms needed to be determined; personnel and vessel operation concerns also needed to be addressed immediately. These concerns are being addressed on a case by case basis.
- January, 2011 a Fiscal/Business Administrative Manager, Ms. Cam Ngo was hired to administer Human Resources/Budget functions. An Assistant Marine Captain, Mr. Brendon Baumeister for the *R/V Weatherbird II* was hired. February 2011 an on-board Research Engineer (Marine Technician) was hired for the *R/V Weatherbird II*.
- Although the search for a permanent Director failed in FY 2009-2010, it was decided to hire Dr. Jyotika Virmani, Associate Director in October 2010 to support the Interim Director. The decision to conduct another search in FY 2010-2011 was hindered due to budgetary concerns; it was determined to postpone the Director search indefinitely.
- Three in-person meetings of the full FIO Advisory Council were held on August 12, 2010, January 7, 2011, and May 25, 2011. In addition, numerous Executive Committee and the FIO Council meetings were held by phone. (Appendix A)
- The FIO By-Laws were approved by the FIO Council on August 12, 2010. (Appendix B)
- January 6, 2011, Chancellor Brogan and Ava Parker, Chair of the Board of Governors met with the FIO Executive Committee to discuss FIO and its future.
- May 25, 2011, a third FIO Council meeting was convened at the University of Central Florida (UCF), Orlando. This was the first FIO Council meeting held in a location other than St. Petersburg. Hosted by UCF FIO Council Member, Professor Graham Worthy.
- May 25-26, 2011, FIO held a British Petroleum (BP) Principle Investigator (PI) meeting to discuss their findings from the rapid block grant awarded to FIO in FY 2009-10. The FIO Council meeting and PI meeting were broadcast live by the Florida Channel, and continues to be broadcast on local stations around Florida.
- FY 2010-11, FIO received seven (7) new member application requests to join including private universities, branch campuses of existing members, non-profit and for-profit organizations. The New Members Committee reviewed the By-Laws and recommends

the addition of Associate and Affiliate Members. These changes were discussed during the January and May FIO Council meetings. Voting will take place at the next Council Meeting to be held in September 2011, at the University of North Florida (UNF), Jacksonville. By-Laws for New Members details are noted in Appendix C.

- January 7, 2011, the FIO Strategic Plan was discussed and approved by the FIO Council. (Appendix D)
- May 25, 2011, the FIO Strategic Plan for Ship Operations was discussed and approved by the FIO Council. (Appendix E)
- FIO ship-time used by FIO members for FY 2010-11 is noted in Appendix F. In order to facilitate access to vessels, including vessels belonging to FIO Members; FIO compiled an inventory of vessels around Florida (Appendix G). This is a living document and is available on the FIO website.
- FY 2010-11 FIO administered 23 on-going and new grants totaling \$13,676,583 (Appendix H).
- Keys Marine Lab Management Board, comprise of the FIO Director, Associate Director, Director of Fish and Wildlife Research Institute (FWRI) and Keys Lab Manager, convened twice to discuss the progress of KML. A revised Mission and Vision Statement for KML has been crafted (Appendix I), and the 5-year KML Strategic Plan is in the works. The FEMA funds for damages caused by hurricane Wilma was not rectified until spring 2011 when \$225k, received from FEMA. These funds removed the deficit balance for the KML.

B. Legislative Initiatives

As a state-wide organization, FIO:

- Serves as advisor to the Governor, State Legislature, State University System Board of Governors, and others as requested, providing science-based advice on natural resource management, mitigation, regulation, programs and policy.
- A Legislative Budget Request (LBR) was submitted for the FY 2011-2012 Legislative Session to: 1.) enhance FIO's state-wide services and responsibilities in particular the Research Vessels--Weatherbird II and Bellows; 2.) stabilize and expand its administration, shared use resources, and member support; and 3.) establish FIO as the point of coordination for the SUS and other marine research and educational entities in coordinating and administering the academic research response to disaster events affecting the State, such as oil spills and hurricanes. The LBR, although approved by the Council of Academic Provosts, the host- USF Board of Trustees and the Florida Board of Governors, was not funded in 2011 Legislative session.

- FIO administration and members met with Congresswoman Kathy Castor and Florida delegation in Washington D.C., to discuss the U.S. Government penalty phase of the BP Deepwater Horizon Oil Spill (DWH). Florida’s marine science research and education community, through FIO, is advocating for 80% of those funds to be distributed amongst the five Gulf States, with a percentage of that set aside to develop an ocean observing system to monitor the environmental conditions of the Gulf of Mexico. A small portion would be utilized to set up an endowment fund of which the interest would be used for long term research and monitoring of the Gulf of Mexico. This new funding mechanism would allow for a more efficient and rapid response to future impacts on the Gulf from oil spills, tropical storms, nutrient loading from rivers etc. and will provide continuous data for management of the ecosystem, including the fisheries.

C. Academic Support

Part of FIO’s mission as an Academic Infrastructure Support Organization (AISO), includes operating the research vessels, the Keys Marine Lab (with FWRI), contributing to the Science, Technology, Engineering, and Mathematics (STEM) degrees and supporting other performance metrics that are imperative to all SUS institutions. As a result FIO was able to achieve its mission in FY 2010-2011.

- A Request for Proposals (RFP) was released for subsidized SUS ship days which allow FIO member organizations to provide educational opportunities for students at sea. An experience on the R/V Bellows has inspired students to continue a career in the scientific and mathematical realm. Upon the FIO Ship Scheduling and Coordination Committee’s review of the RFPs, a recommendation to fund 109 subsidized days (74 Science and 35 Transit days) was made to the FIO Director. All 109 subsidized days were awarded to various FIO member organizations in FY 2010-2011.

Institution	Science days Awarded	Transit Days Awarded
Eckerd College	3	
Florida A&M University	6	4
Florida Gulf Coast University	6	4
Florida Atlantic University/Harbor Branch Oceanographic Institute	6	
Mote Marine Laboratory	4	
Nova Southeastern University	6	6
University of Florida	4	2
University of Central Florida	1	
University of North Florida	7	2
University of South Florida	13	4
University of West Florida	18	13
Total Awarded Days	74	35

- Updated FIO General e-mail listserv has been compiled, consisting primarily of faculty and others associated with FIO Member Institutions currently with over 230 subscribers. This is used to make announcements of interest to the SUS marine science community, such as meetings that are being organized by FIO Members, updates on Federal and State Legislative initiatives that impact marine science research and education, BP funded research projects and posting faculty, post-doctoral or student employment opportunities and other funding opportunities.
- To facilitate faculty and researchers across Florida, a list of vessels of all sizes that are available to FIO members (in accordance with the operating institutional fees) were compiled (Appendix G). This data is available on an as needed basis.
- Similar lists of marine science courses are being gathered- with a focus of developing cross-institutional courses and providing students with greater flexibility to advance their education.
- An educational plan is being developed for further state-wide collaborations, including a semester with all the Marine Laboratories around the state. Florida is uniquely positioned- as marine scientists have a wide access to the largest range of ocean environmental conditions; from the broad, relatively calm shelf and the semi-enclosed Gulf of Mexico Basin on the west, to the dynamic Gulf Stream on the east, and from the sub-tropics in the north to the tropical Keys in the south.
- The FIO Director and Associate Director have visited several FIO Member institutions; met with upper administration, faculty and tour their facilities- they were have a better understanding of each institutional need. In FY 2010-11, both visited University of Florida, Florida Gulf Coast University, Mote Marine Laboratory's Summerland Key Lab, and New College of Florida. In addition to this, FIO Council meetings are being planned at different Member Institutions.

D. Infrastructure Development

Since the Oil Spill, both vessels have been operating at an increased rate with the *R/V Bellows* at sea for 180 days, and the *R/V Weatherbird II* at sea for 150 days in FY 2010/11. Numerous updates, have been made to both vessels, including a new winch system on the *R/V Weatherbird II* and emailing capabilities from the vessels while at sea to land. The vessels are also maintained in compliance with Coast Guard Guidelines..

Keys Marine Lab has been operating at full capacity for the first time since Hurricane Wilma. On-site maintenance and improvement projects are underway to ensure that visiting faculty, students and researchers from Florida and around the world have top-notch facilities necessary to conduct teaching and research.

The FIO main office space was renovated as part of renovations to the USF College of Marine Science buildings. The offices had not been renovated since the 1970s, and were in some cases gutted to remove mold and other such substances.

E. BP Funds

BP Block Award

During 2010, the FIO played a substantial leadership role in the immediate and long-term response to the Deepwater Horizon Oil Spill and received a \$10M block award from BP to begin immediate research and monitoring of the long-term conditions in the Gulf. The FY 2009-2010 FIO Annual Report included the process for distributing these funds and the list of awards and PIs that received these funds.

On May 25-26, 2011 a BP PI meeting was held to discuss their results-to-date. This received wide-spread media coverage, including a live broadcast of the entire meeting on The Florida Channel. The Florida Channel has since been broadcasting highlights from the meeting. In addition to results, the meeting offered a venue for scientists from various FIO Member institutions and beyond to collaborate, develop new ideas and make recommendations, should a future oil spill occur. Drilling will begin soon off Cuba, and additional leases are being granted for deep-water drilling in the Gulf of Mexico, making it very important to utilize the latest technologies and data to protect Florida's valuable natural resources in the likely event of another oil spill.

Gulf Research Initiative (GRI)

Immediately following the oil spill, BP pledged \$500M over the next 10 years for scientific research in the Gulf of Mexico. The first \$50M was distributed via block awards (including \$10M to FIO). Following the block grant, BP, established the Gulf Research Initiative (GRI) to oversee the distribution and management of those receiving \$450M over the next nine (9) years. FIO Director, Dr. William Hogarth currently serves as one of the two State of Florida representatives to the Board. The other, Dr. Richard Dodge, is also a member of the FIO Advisory Council.

In April 2011, the GRI Board released their first RFP for the remaining funds. With \$35M per year, the RFP would establish approximately 5-8 centers around the Gulf to address five thematic areas (Appendix J). Due to a conflict of interest, the FIO Director had to recuse himself from this RFP. After consultation with the FIO membership, the Oil Spill Academic Task Force, and a letter from Chancellor Brogan to the SUS (Appendix J) in support of FIO, Associate Director, Dr. Jyotika Virmani took a two-fold approach resulting FIO as the lead institution on two proposals. Dr. Virmani was also associated with nine (9) other proposals a Co-PI. The two proposals led by FIO include Directors from two different FIO member institutions: Dr. Graham Worthy from UCF and Dr. Paula Coble from USF. The total funding request for the two FIO-led proposals exceeds \$40M over the next three years. Further details on the proposals are in (Appendix J)

Actual Expenditure and Position Data for Fiscal Year 2010-2011

These budget expenditures are from the State University System's Education and General Account administered through the host university, USF.

FY 2010-2011

Description	Amount	
	FY2009-10	FY2010-11
<i>Administration</i>		
STAFF	\$201,375	\$268,697
FACULTY	\$269,588	\$237,429
FRINGE-MATCHING	\$137,840	\$136,833
TRAVEL	\$1,500	\$334
REGISTRATION/CONFERENCE MEMBER	\$500	\$500
TELEPHONE & TELECOMMUNICATIONS	\$10,000	\$8,065
CONTRACTUAL SERVICES	\$250	\$504
POSTAGE & SHIPPING	\$250	\$0
COMPUTER RELATED MATERIALS	\$297	\$494
MATERIALS, SUPPLIES & EQUIPMENT	\$2,000	\$1,958
REPAIRS/MAINTENANCE/RENOVATION	\$1,000	\$423
OTHER EXPENSES	\$10,000	\$67,079
Sub-Total Administration	\$634,600	\$721,816
<i>Ship Support</i>		
STAFF	\$166,258	\$101,644
FRINGE MATCHING	\$74,053	\$40,040
OTHER EXPENSES – Ship	\$100,000	\$40,000
Sub-Total Ship Support	\$340,311	\$181,684
GRAND TOTAL	\$974,911	\$903,500

Staff and Faculty Budget Justification

Upper Administration

The Director is responsible for providing leadership in support of FIO's mission and goals, development and implementation of FIO's Five-Year Strategic Plan, management of FIO's budget, enhance regular communication with FIO member institutions, take active role in working with SUS and USF legislative to advocate support for FIO's initiatives, and oversee internal administrative and business management processes included but not limited to scheduling and operations of research vessels (R/V Weatherbird II and R/V Bellows) and the Keys Marine Laboratory. Represent Florida as a member of the Gulf of Mexico University Research Collaborative (GOMURC).

The Associate Director assists the Director in program implementation of strategies, goals and objectives for the overall program, projects and initiatives, and appropriate procedures to fulfill

the mission of the institute, participate in outreach programs with the FIO consortium members, interact with state and national organizations, administers the grant budgets, interacts with the PIs, and manage grant funded personnel.

In addition, both the Director and Associate Director are PIs or co-PIs on assorted awards (Appendix H).

Administration/Staff

FY 2010-11, FIO's seven (7) Administration and Staff Employees:

Administration:

- William Hogarth, Interim Director-Oversight of FIO Administration
- Jyotika Virmani, Associate Director-Assist Director in daily management of FIO
- Cam Ngo, Fiscal and Business Administration Manager - Provides administrative leadership to Director and Associate Director; involved with GRI and Gulf of Mexico University Research Collaborative (GOMURC) initiatives; management of financial administration of FIO; oversees FIO's HR and payroll-related issues; development and implementation of business and fiscal processes; responsible for interpreting university and functional policies ensuring that administrative activities are in compliance with USF policies and procedures
- James (Randy) Maxson, Marine Superintendent – Management of research vessels operations (scheduling, shipyard, maintenance, purchasing, etc) supervision of ship crew members, coordinates permitting requirements for users of both the research vessels, and the KML
- Lisa Tipsword, KML Operations Manager- management of day to day business operations, coordinating use and activities at the KML. Position is based at KML.

Staff:

- Fiscal and Business Specialist, Mauree Kimball-responsible for P-card transactions, billings, reconciler for Pcards, maintains and reconciles internal ledgers, acts as backup for Institute payroll, participate in other assigned projects.
- Fiscal and Business Assistant, Kathleen Seastrum-travel coordinator, purchase orders, accounts receivable/payable.

Non-Tenure Earning Faculty

Dr. Sandra Vargo, Associate Director, retired late December 2010

Robert Walker- Marine Tech Coordinator provides technical support for the scientific equipment aboard the research vessels, serves on the Dive Safety committee, liaison for annual RFP for FIO awarded ship-time; works with the consortium members to determine future scientific equipment needs.

Ship Crews

R/V Bellows

Thomas Worle-Captain
Larry Braun-Assistant Captain
*Mark Tague-Cook/Deckhand

R/V Weatherbird II

Matthew White-Captain
Brendon Baumeister-Assistant Captain
Andrew Warren-Research Engineer (Marine Tech)
*Larry Smith-Chief Engineer
George Guthro-Assistant Engineer
Thomas Lee-Cook/Deckhand
David Coy-Deckhand

Temporary Hires

Gerda Macbain (KML)
Christopher Bailey (Weatherbird)
David Rogers (Weatherbird)
*James Hanratty (Bellows)

The Captains are responsible for the overall operations of the vessels; he is assisted by the crew members to ensure that each cruise operation and the scientific parties are safe and cruise objectives are achieved.

Larry Smith-Chief Engineer sustained major injuries during the Oil Spill that disallowed his return to the R/V Weatherbird. He resigned his employment FY 2010-11. Mark Tague-Cook/Deckhand also incurred an injury on the R/V Bellows that prohibited him to return to the vessel. Mr. Tague has not returned to duty as of FY 2010-11; he's an active employee.

We have hired on a temporary basis, Mr. James Hanratty to perform duties of Cook/Deckhand on the R/V Bellows during Mr. Tague's absence. Several temporary employees have been hired to assist in the engine room.

FY 2010-11- Thomas Worle, Larry Braun and Mark Tague, all on the R/V Bellows were supported by E&G; Matthew White, Captain on R/V Weatherbird II, is supported by the host institution's E&G, all salaries for the remaining R/V Weatherbird II crew are drawn from auxiliary accounts. A temporary hire for KML is drawn from their auxiliary account. For summary of all auxiliary accounts see (Appendix K).

Workplan for Current Fiscal Year (2011-2012)

This workplan will be presented to the FIO Advisory Council on September 16, 2011. Elements of this are underway based on the FIO Mission and the proposal used to establish the AISO. Many of these are taken from the Strategic Plan, which was also finalized and approved at the Council meeting.

- I. Provide, promote, and support a collaborative statewide forum for addressing opportunities to advance the understanding and management of Florida's coastal oceans;
 - a. Conduct regular visits to all member institutions to strengthen member networks, to explain availability and promote use of shared resources, and to solicit recommendations for enhancing academic infrastructure support.
 - b. Future meetings will be held at different member institutions, to allow all FIO members first-hand knowledge of activities and resources across Florida. The next FIO Council meeting will be hosted by UNF on September 16, 2011.
 - c. Conduct and sponsor workshops to gain membership consensus on priorities for collaboration and cooperation.
 - d. Ensure understanding and acceptance by SUS Board of Governors and State Legislators of FIO's role, responsibility, and requirements.
- II. Leverage and integrate existing physical and intellectual resources within the SUS and throughout the State of Florida;
 - a. Continue to establish FIO as the SUS coordinating body for ships, equipment, marine laboratories and other shared-use facilities and equipment.
 - b. Coordinate a state-wide collaboration to develop new marine science educational programs.
 - c. Explore opportunities for establishment of an east coast FIO satellite office.
 - d. Explore use of FIO vessels and other facilities by private enterprise.
 - e. Develop long-term plan to ensure support of essential personnel, marine technical experts and support positions for both research vessels and the Keys Marine Lab.
- III. Anticipate and plan for future shared use infrastructure needs;
 - a. Analyze regional infrastructure needs in the Gulf of Mexico and Atlantic coast of Florida.
 - b. Conduct needs-assessment of research capability enhancements for RV/Weatherbird II, RV/Bellows, and KML and the need for additional shared-use resources.
 - c. Provide vessels to member institutions as reasonably priced as possible to keep FIO competitive and thus provide opportunities for faculty and students.

- d. Conduct needs-assessment of other shared-use research facilities throughout Florida, with the goal of minimizing duplication of major research facilities, where practical.
 - e. Establish 5-year program to identify and solicit sources of funding for shared-use infrastructure.
- IV. Develop and strengthen networks that enable timely identification of research opportunities and distribution of results
- a. Actively participate in appropriate State-wide and Regional alliances, including the development of a Coastal Ocean Observing System for Florida.
 - b. Explore and implement innovative ways of communicating results of shared-use research platforms, equipment, and facilities.
 - c. Seek recognition by, and participation with, national and international leaders in establishing priorities in coastal oceanographic research.
 - d. Support, lead, and participate in conferences and other opportunities to provide educational opportunities related to the FIO mission and for the marine science community and the general public.
- V. Establish FIO as the State's designated oceanographic research organization.
- a. Serve as advisor to the Governor, State University System Board of Governors, State Legislature, and others as requested, providing science-based advice on mitigation, regulation, programs and policy.
 - b. Participate in planning a coordinated rapid response of FIO members to assess and understand impacts on the Gulf of Mexico and Atlantic ecosystems – and including atmosphere, coast, estuaries, and rivers - of events such as hurricanes, oil spills, red tide and other harmful algal blooms.
 - c. Administer resources provided to address impacts of disaster events, e.g., the \$10M provided to FIO by BP to conduct research on the environmental impacts of the Deepwater Horizon Oil Spill of April 2010.
 - d. Ensure peer-reviewed documentation, widespread dissemination and interpretation of findings and recommendations to policy-makers, educators, and the general public.
- VI. Continue participation in the Gulf of Mexico University Research Collaborative (GOMURC). The GOMURC is comprised of a team of five university-based consortia representing the many marine-oriented research organizations within the five Gulf States (Alabama, Florida, Louisiana, Mississippi, and Texas).
- a. Serve as the primary university-based, multi-State research organization to respond to disasters that endanger the Gulf of Mexico's marine life, seabed, water column, surface, shoreline, and communities dependent upon these valued ecosystem components. The GOMURC will respond to other Gulf-wide disasters, and engage in

other related and unrelated activities consistent with the missions described above, as may be determined by its members.

- b. Develop and promote research initiatives, and provide infrastructure for marine research programs within the Gulf of Mexico and Caribbean that expand opportunities for GOMURC members.
- c. Hire a GOMURC Coordinator through FIO, with funding provided by the host university, USF's Academic Affairs and Sponsored Research divisions.
- d. Seek opportunities to partner and collaborate with local, state and federal organizations and authorities, such as the Gulf of Mexico Alliance, in opportunities that advance the mission of the GOMURC.

Other Issues of High Priority in 2011-2012

- I. Make decisions on admission of New Members

Prepare a Legislative Budget Release (LBR) that reflects critical needs of FIO operations.
- II. Increase usage of KML for courses, research and workshops
- III. Complete discussion with NOAA to obtain Intergovernmental Personnel Act Mobility Program (IPA) for Laboratory Director, KML
- IV. Review all 27 BP proposals to ensure they are completed on schedule and all obligations met.
- V. Provide shiptime and other assistance if requested, for members receiving GRI funded projects to examine 5 research themes in the Gulf of Mexico following BP Oil spill.
- VI. Propose ship scheduling committee evaluate and recommend to the Director, solution for transit days.
- VII. Hire permanent Chief Engineer position for R/V Weatherbird.

Appendices

Appendix A: FIO Council Members



FIO Council Membership List 2010-2011

The Institute is governed by the FIO Council. Council members are appointed by the head of their respective institutions and serve two-year terms. They are active members of the Florida oceanographic science and education community. In addition to advising the FIO leadership regarding statewide collaboration in oceanographic science and education, the Council's key duty is to plan and align legislative budget requests with strategic priorities.

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Appendix B: FIO By-Laws

Florida Institute of Oceanography Council Bylaws

(Approved by FIO Council August 12, 2010)

I. Creation and Administrative Assignment of the Florida Institute of Oceanography

The Florida Institute of Oceanography (FIO) is an Academic Infrastructure Support Organization (AISO) of the State of Florida approved by the State University System (SUS¹) Council of Academic Vice Presidents (CAVP), ratified by the presidents and chairs of the boards of trustees of the member organizations and approved by the Florida Board of Governors (BOG). Under a Memorandum of Understanding (MOU) ratified by the member organizations and approved by the BOG, the University of South Florida (USF) assumes the role of host university, with the support of participating universities, for the operation of FIO. FIO administrative offices are housed on the campus of the College of Marine Science in St Petersburg, Florida and fiscal accounting functions are administered by USF and will be overseen by the USF Board of Trustees (BOT).

II. Purpose and Duties of the FIO

The FIO will facilitate and support Florida's emergence as the pre-eminent state in the nation for research and education in understanding ocean processes and how they impact economically essential natural resources and contribute to natural and man-made hazards. The FIO will have within its scope all aspects (research and education) of oceanography that affect the State of Florida. FIO will direct its focus on the entire coastal ocean, from the coast to the deep ocean, thereby positioning itself to facilitate and support system-wide scientific leadership within the SUS for the environmental stewardship of the State of Florida. The FIO mission, as defined in the MOU, is to: (1) provide a diverse and collaborative statewide forum addressing problems of concern in coastal oceanographic research and education; (2) leverage and integrate existing physical and intellectual resources within the SUS and throughout Florida; (3) anticipate and plan for future infrastructure needs; (4) facilitate, promote and support collaborative ocean-related research and education statewide; and (5) develop and strengthen networks that enable timely identification of oceanographic research opportunities and distribution of research results and other information to the general public, natural resource management agencies and local, state and national policymakers.

As an AISO, the FIO provides technology, equipment, facilities, services, and resources for academic programs and research in Florida. The FIO facilitates access to major marine research

¹ The State University System consists of the following institutions: Florida Agricultural and Mechanical University, Florida Atlantic University, Florida Gulf Coast University, Florida International University, Florida State University, New College of Florida, University of Central Florida, University of Florida, University of North Florida, University of South Florida, and University of West Florida

and educational capabilities and facilities throughout the State, including the operation of sea-going vessels for coastal ocean research, and promotes research, education, economic development, and environmental sustainability of Florida's coastal ocean. FIO enables Florida to provide a virtual intellectual and physical hub for the mature and diverse marine science enterprise that exists in the state. Established entities across academia, government, and the private sector will collaborate to:

- a. Promote research, education, and project management;
- b. Enhance awareness of ocean science issues affecting all Floridians;
- c. Maximize the efficient use of supporting infrastructure;
- d. Produce scientific solutions;
- e. Leverage public and private sector investments to increase capacity; and
- f. Inform public policy development and decision-making.

III. Membership and Governance

The FIO shall consist of the Membership, the FIO Council, the FIO Director and staff, standing and ad hoc committees of the Membership, and a Board of Visitors.

A. Membership. The FIO consists of the eleven (11) state universities and nine (9) other entities which include faculty, staff, and scientists conducting research and teaching and who may wish to utilize ships, facilities, and other services provided by FIO. The non-state university members of FIO by ratification of the MOU are: Eckerd College; Florida Sea Grant College; University of Miami, Rosenstiel School of Marine and Atmospheric Science; Florida Department of Environmental Protection; Florida Fish & Wildlife Conservation Commission, Fish and Wildlife Research Institute; Florida Institute of Technology; Mote Marine Laboratory; Nova Southeastern University; and the Smithsonian Marine Station at Fort Pierce.

Election of New Members. The FIO Council may elect to membership other institutions in the Florida ocean science education and research community that meet the criteria for membership approved by the FIO Council. Criteria for membership will address commitment to the support of shared use facilities; agreement to support legislative budget requests of the FIO as required to maintain and operate these facilities in a safe, efficient and cost-effective manner; commitment to attend all scheduled meetings of the FIO Council and FIO Executive Committee, if appropriate; and completion of assignments in a timely manner as agreed to by the FIO Council or FIO Executive Committee.

B. FIO Council. The primary function of the FIO Council is advisory to the FIO leadership, including the FIO Director and the Provost of the host institution. The FIO Council will consist of one (1) representative from each member organization and two (2) from the host institution who are active members of the Florida coastal ocean research and education community and who are appointed for a two (2) year term by its president or CEO or his/her designee. The president or CEO (or his/her designee) of each member organization may also appoint one (1) alternate who may serve in the representative's stead at meetings of the Council, but each institutional member may be represented by only one (1) individual in the deliberations of the Council. Member representatives may be reappointed, but shall not serve more than three (3) consecutive

terms. The foregoing notwithstanding, the second member appointed by the host institution may serve unlimited terms. The FIO Council shall elect a Chair biennially from the membership. The FIO Director together with a representative of the BOG will serve as non-voting, *ex-officio* members. Council members shall have the authority to participate in all activities on behalf of the member organization and cast its vote as required. Each institutional member can change a delegate at any time by notifying the FIO Director by written communication. The Director is required to notify the affected organization member if an appointed representative misses two consecutive meetings of the FIO Council.

C. FIO Director and staff. The FIO Director shall be appointed by the Provost of the host institution in consultation with the FIO Executive Committee. The FIO Director reports to the Provost of the host institution. The FIO Director will maintain active contact with FIO member institutions by visiting campuses, scheduling and conducting workshops, conducting needs assessments and providing advance knowledge of FIO activities to achieve the goals of the AISO. The FIO Director shall complete an annual report no later than September 1 of each year covering the previous fiscal year (July 1-June 30). The report shall include a summary of activities and accomplishments, provide actual expenditure and position data, and include a workplan for the current fiscal year. Prior to its submission to the Chancellor, no later than October 31 of each year, the report will be distributed to members of the FIO Council for review and comment and will be approved by the Provost of the host institution. Under the FIO Director's guidance, the FIO staff has the primary responsibility for operation and maintenance of the vessels, implementation of the ship schedule, and support for PIs to achieve the research goals; coordination of the education components to achieve the education goals; maintenance of the FIO website; and support for grants and other services provided to member institutions. In the event of a vacancy in the FIO Director position, a search committee will be appointed by the Provost and will follow the customary search process of the host institution.

IV. FIO Council Meetings

The FIO Council will meet at least once in person each year and by telephone conference as needed. Agendas for the meetings will be set by the Chair of the FIO Council in consultation with the FIO Director and approved by the Provost of the host institution. A quorum must be present for the Council to take action. A quorum shall consist of no less than half of the member institutions plus one. All meetings will be conducted according to Roberts Rules of Order.

Voting. Each member of the FIO Council has one vote. Voting will be decided by a simple majority of member representatives present unless otherwise specified in these by-laws. New member institutions elected to the FIO secure voting privileges upon the appointment of an FIO Council representative as specified in the bylaws, but not before adjournment of the meeting at which they were elected.

Meetings of the FIO Council are open to the public. A Council member may designate an individual to attend the meetings as an observer and to comment on agenda items but the observer will not have voting privileges.

Minutes of the Meetings. Minutes shall be kept for all regular meetings of the Council and shall be made available by email to the membership within two weeks of each regularly scheduled meeting. Following a period of two weeks for comment and amendment, the minutes shall be approved by email vote of the members and posted on the Council web site.

Staffing of the Council. Members of the staff of the FIO will act as staff for the Council, organizing meeting logistics, taking minutes and handling communications with the members.

V. Standing Committees and Workgroups

Executive Committee. The FIO Executive Committee will consist of five (5) Council members including the Council Chair and four elected members. At least one member of the FIO Executive Committee shall be from the host institution. The FIO Executive Committee will meet at least three times per year and provide administrative oversight of the FIO in cooperation with the FIO Council and the Provost of the host institution. The FIO Director will serve as a non-voting, *ex officio* member. Written reports of the items discussed and actions taken at meetings will be sent to the FIO Council via email and posted on the FIO website for the benefit of the FIO Council and interested parties. Membership on the Executive Committee will be evaluated biennially. In the event of a vacancy on the Executive Committee, the FIO Council will elect a member to fill the vacancy.

Ship Scheduling and Coordination Committee. The Ship Scheduling and Coordination Committee (SSCC) will be elected by the FIO Council and will consist of at least three (3) Council members (with at least one from the host institution) reflecting the geographical diversity of Florida. The SSCC will provide oversight and advice to assure the efficient deployment of FIO research vessels in all of Florida's coastal ocean and surrounding waters (Straits of Florida, coastal Atlantic, Bahamas, Caribbean, northern Gulf of Mexico). The SSCC will assist the FIO Marine Superintendent with efficient long-term planning to ensure that FIO members will have equitable access to these vessels from Jacksonville to Pensacola. The SSCC will meet at least once annually, in conjunction with the FIO Council meeting.

Nominating Committee. A Nominating Committee will consist of three (3) members appointed by the Executive Committee. The Nominating Committee will recommend candidates to the FIO Council to serve on the standing and ad hoc committees. The Nominating Committee will meet on an as-needed basis to fill vacancies on the standing and ad hoc committees.

Board of Visitors. The FIO Board of Visitors will have five (5) to nine (9) members appointed by the host institution President, in consultation with the FIO Council and the Council of Academic Vice Presidents (CAVP), for a three (3) year term, to provide broad oversight to the FIO. Members may be reappointed, but shall serve no more than three (3) consecutive terms. Members will represent the overarching oceanographic research and education interests of global, national and Florida-focused entities. The FIO Board of Visitors shall include representatives from the private sector, higher education, government scientific laboratories and agencies, and others as deemed appropriate by the host institution President. The Board of Visitors will report to the Provost of the host institution and the FIO Executive Committee, and will serve as a valued resource to FIO by providing advice on best practices for optimizing the

resources of the FIO and member institutions; identifying strategic directions for potential cooperative programming; interfacing with potential funding sources; and representing FIO and the vital importance of oceanographic research to the broader community.

Additional *ad hoc* or special committees may be formed by the Executive Committee with the cooperation of the Council to address particular issues.

VI. By-Law Revisions

The bylaws and any proposed revisions shall be reviewed yearly. Council members shall submit any proposed revisions to the Chair at least 30 days in advance of the annual meeting. The Executive Committee and the Provost of the host institution shall review the proposed revisions prior to a full vote of the Council. Amendment of the bylaws requires a two-thirds vote of the Council.

Appendix C: Draft of Proposed Changes to By-Laws on Voting and New Members

Voting

Voting will be decided by a simple majority of member representatives present in person, by phone, or by e-mail unless otherwise specified in these by-laws.

Membership

- A. Membership. The FIO consists of the eleven (11) state universities and nine (9) other entities which include faculty, staff, and scientists conducting research and teaching and who may wish to utilize ships, facilities, and other services provided by FIO. The non-state university members of FIO by ratification of the MOU are: Eckerd College, Florida Sea Grant College; University of Miami, Rosenstiel School of Marine and Atmospheric Science; Florida Department of Environmental Protection; Florida Fish & Wildlife Conservation Commission, Fish and Wildlife Research Institute; Florida Institute of Technology; Mote Marine Laboratory; Nova Southeastern University; and the Smithsonian Marine Station at Fort Pierce.
1. Full Members: All SUS members who wish to become members of FIO can do so as a Full Member. As an AISO, FIO serves the needs of the SUS. To retain integrity as an AISO, the majority of Full Members needs to be from the SUS; therefore at least 51% of the Full Membership needs to be SUS institutions.

If there is a vacancy on the Council for a new non-SUS Full Member, acceptance of the new non-SUS Full Member to the Council will be by a vote of the entire FIO Advisory Council at an in-person Council meeting. A 3/4 majority vote is required to accept a non-SUS member as a Full Member.

2. Associate Members: Associate Membership is established for non-profit non-SUS organizations with a marine science focus. These include all non-profit entities, such as, but not limited to, colleges, museums, aquariums, and other organizations that fit the Criteria for New Member Applications. Associate Members will promote FIO and provide FIO and its members with access to ships, laboratory facilities, and other ocean and coastal research and education assets (for a fee, if appropriate). Other branch campuses of existing SUS Council Members may become Associate Members, but there can only be one voting (Full) member from any one SUS institution other than the Host University, which has two voting members.

3. Affiliate Members: Affiliate Membership is established for for-profit non-SUS organizations with a marine science focus. Affiliate Members will provide FIO and its members financial or in-kind support, use or access to ships, laboratory facilities, and other ocean and coastal research and education assets (at a fee, if appropriate).

- B. Election of New Members. The FIO Council may elect to membership other institutions in the Florida ocean science education and research community that meet the criteria for membership approved by the FIO Council (“New Members”). Criteria for membership will address commitment to the support of shared use facilities; agreement to support legislative budget requests of the FIO as required to maintain and operate these facilities in a safe, efficient and cost-effective manner; commitment to attend all scheduled meetings of the FIO Council and FIO Executive Committee, if appropriate; and completion of assignments in a timely manner as agreed to by the FIO Council or FIO Executive Committee. The FIO Council will evaluate each New Member request individually. All SUS New Members are eligible to be Full Members and will automatically be awarded a seat at the FIO Advisory Council. A simple majority vote will be required to accept any non-SUS Members as a New Associate or Affiliate Member onto the FIO Advisory Council.

Criteria for New Member Applications:

1. Significant presence in Florida, such as an operating facility in the State of Florida.
2. Primary focus is marine science education and research.
3. Ratify a modified FIO MOU specific to the Associate or Affiliate Membership
4. Provide a proposal (written), including documentation of the extent of presence in the State of Florida. Orally present to the FIO Advisory Council how the institution will support FIO Council activities.
5. Demonstrate ability to bring tangible support to FIO.
6. Pay an annual membership fee.

Privileges for Full Members:

1. Attendance and participation at FIO Advisory Council Meetings
2. Voting privileges on the FIO Advisory Council
3. Access to subsidized ship time

4. Participate in specific project funding opportunities

Privileges for Associate Members:

1. Attendance and participation at FIO Advisory Council Meetings.
2. Access to at-cost ship time.
3. Participate in specific project funding opportunities.

Restrictions for Associate Members:

1. Do not have voting privileges on the FIO Advisory Council

Privileges for Affiliate Members:

1. Attendance and participation at FIO Advisory Council Meetings.
2. Access to ship time at commercial rates.
3. Participate in specific project funding opportunities.

Restrictions for Affiliate Members:

1. Do not have voting privileges on the FIO Advisory Council

STRATEGIC PLAN 2010-2015

For the

FLORIDA INSTITUTE OF OCEANOGRAPHY

(Approved by FIO Council January 7, 2011)

The Florida Institute of Oceanography (FIO) was established in 2009 as an Academic Infrastructure Support Organization (AISO) by the State University System (SUS) Council of Academic Vice Presidents, ratified by the presidents and chairs of the Board of Trustees of the member organizations and approved by the Florida Board of Governors. Under a Memorandum of Understanding (MOU) ratified by the member organizations and approved by the Board of Governors, the University of South Florida (USF) is the designated host institution. Operations and administrative offices of the FIO are housed on the campus of the College of Marine Science in St Petersburg. The **Vision** of the FIO founders was that a statewide consortium of universities and research laboratories would allow development of both human assets and physical infrastructure that would elevate Florida into a leadership position in oceanographic and coastal education and research. Exploration, solving problems, and development of new knowledge is the very definition of education and FIO should facilitate the functional integration of education and research by involving students in every facet of FIO activities. The **Mission** of the FIO is to facilitate and support Florida's emergence as the pre-eminent state in the nation for coastal ocean education through the development of educational and research infrastructure, which will support faculty and scientists who can advance our understanding of coastal ocean processes and communicate that understanding to Florida's residents, educators, policy makers and resource managers.

Goals and Strategies

1. Provide, promote and support a collaborative statewide organization that can support the education of students in state and private colleges and universities by:
 - a. Supporting existing marine education programs and member institution research projects with FIO maintained facilities, research vessels and other infrastructure.
 - b. Developing a statewide coastal and ocean network that can organize the coastal and oceanographic intellectual assets of Florida to provide high quality educational opportunities for students interested in coastal and ocean science and related disciplines.
 - c. Supporting and leading conferences, seminars, and workshops for students, teachers, public officials, and residents of Florida.
2. Maintain a state-of-the-art infrastructure for coastal ocean education and research with centrally maintained assets including research vessels, marine laboratories, and shared-use facilities and equipment that will:

- a. Establish and support FIO as Florida's coordinating body for coastal ocean research. This may include reduced cost for ship time and laboratory use for FIO members that can provide a competitive advantage to FIO member institutions.
 - b. Arrange and coordinate vessel and equipment leasing opportunities for FIO member institutions when FIO infrastructure is not sufficient to support member needs.
 - c. Develop and promote research initiatives for FIO member institutions within coastal waters of Florida as well as within the Gulf of Mexico and Caribbean.
 - d. Prepare a long-range plan to support FIO members in the future through the maintenance and purchase of research vessels and equipment.
 - e. Hire vessel crews, marine technical experts and support positions.
3. Develop and strengthen networks that enable timely identification of needs of member institutions, state agencies, and local governments by:
- a. Actively participating in state-wide and regional alliances, including ocean-observing alliances.
 - b. Participating in national and regional forums that will assist in establishing priorities for the FIO.
 - c. Exploring and implementing innovative ways of communicating research results with scientists, agencies, policy makers and citizens of the state.
 - d. Assisting the state in communicating technical and scientific concerns with FEMA, Coast Guard and relevant state or federal agencies in emergency situations, e.g. the Deepwater Horizon oil spill.
 - e. Providing science-based advice to the state's leaders on coastal and ocean issues whenever requested.
 - f. Visiting constituent FIO institutions to understand needs and opportunities for both teaching and research.
 - g. Partnering to develop plans for rapid technical response to environmental and natural disasters that impact the state.

Appendix E: Strategic Plan for Ship Operations

Florida Institute of Oceanography (FIO)

Strategic Plan for Ship Operations

The acquisition and maintenance of research and teaching platforms for offshore coastal and oceanographic research is critical for Florida coastal and oceanographic educators and scientists and one of the most important assets of the FIO. Maintaining a research fleet with state-of-the-art, on-board equipment currently consumes a large portion of the FIO budget. The strategic use of these assets will be important if FIO is to continue enjoying the support of state and private universities and research institutions.

While future plans may include an FIO research vessel located on the East Coast of Florida, the current ocean-going, research fleet is based at the University of South Florida, St Petersburg Campus in the Gulf of Mexico. This presents difficulty for FIO scientists and marine educators working on the Atlantic Coast or even those working off the western Florida panhandle. Transit time for FIO vessels can consume a large proportion of operational days per year if vessel use efficiency is not a priority in scheduling. Priority use of vessels should always consider overall cost (including transit time), but also assign priority as follows.

- 1) Applications for paid ship-time by member institutions shall have priority over paid ship-time applications from non-member institutions.
- 2) Non-member institutions shall pay the full cost of vessel operations, crewing, etc. This may include costs associated with installing and removing equipment not normally part of the ships equipment complement. Member institutions shall be charged a reduced ship-time rate determined by the FIO Council.
- 1) FIO funded ship-time shall only be provided to member institutions. Priority shall be granted to FIO institution proposals that effectively integrate student education and training into their requests including, but not limited to incorporating students registered in a class at an FIO institution. Secondary priority shall be provided to proposals that utilize students while assisting faculty in their research projects. Students gain important experience when assisting faculty research and this practice is encouraged. However, when adequate FIO funded days are not available for all proposals, priority should be given to those classes where ship-time experience is most valuable. Exceptions can be made where the proposed student activity involves time during vessel transit that would otherwise be wasted.
- 2) FIO funded ship-time will vary each year and is set by the FIO Council in consultation with FIO scheduling personnel. Vessel cost per day varies and the goal of the free days is to provide the maximum number of students experience on a vessel with available funds. Typically, this will require the use of the least expensive vessel. In cases where more students might be able to gain experience for less cost, FIO personnel may schedule the more expensive vessel for free days.

- 3) A Call for Proposals for educational ship-time shall be made each year and a time frame for submission, review and award set by the FIO Executive Committee in consultation with the FIO Director.
- 4) Proposals submitted for FIO funded educational ship-time shall be reviewed by the Ship Scheduling Committee and Prioritized based on the general guidelines set by the FIO Council. The prioritized list shall be presented to the FIO Executive Committee, who shall review the priority list, make recommendations or changes and forward the prioritized list of proposals to the FIO Council for approval.

Current levels of support from the State University System (SUS) to the FIO are not adequate to assign vessels to research and education programs without external funding from individual research scientists and marine educators. FIO scientists and marine educators enjoy lower ship-time rates, which makes proposals by FIO scientists more cost effective. Future budget requests for FIO should endeavor to provide additional funds so that rates to FIO scientists can provide a financial advantage for grant and contract competition.

Even when operating at peak efficiency, vessels and crews cannot operate 365 days a year. FIO staff will determine how many days FIO vessels can safely operate. FIO staff will determine when normal maintenance is needed or when a vessel needs to be removed from service for repair or maintenance. Safety of the crew and research party shall always be a priority, even if there is a substantial fiscal cost associated with a schedule change due to a safety issue. The FIO scheduling coordinator shall notify the appropriate research scientists when a schedule change has occurred and shall attempt to reschedule.

The FIO scheduling director, in consultation with the FIO Director, shall set schedules for all FIO vessels. The scheduling goal shall be to maximizing income from vessel use, while maximizing research platform availability for FIO educators and research scientists. Requests for paid ship-time will vary each year depending on funding to member faculty. It will be necessary to maintain scheduling flexibility. While priority shall be for FIO institutions, there may be cases where costs may be less if non-FIO vessels are leased to allow non-FIO research scientists use of vessels. Such flexibility is allowed providing such decisions are cost effective for all parties.

In emergency situations, scheduling can be altered by the FIO Scheduling Director with Approval from the FIO Director. In such cases, the FIO Executive Committee shall be notified as soon as possible. However, their approval is not required in such an emergency. Emergencies shall consist of, but not limited to, scheduling changes caused by inclement weather, necessary ship repairs, requests to change ship days, etc.

A report on vessel use and scheduling shall be submitted by the FIO Director to the FIO Ship Scheduling Committee, which will review the document and provide it to the FIO Executive Committee for approval. The annual report will include:

1. Number of operational days, transit days, maintenance days, and in port days,
2. An account of income generated by vessels through rental to FIO and non-FIO scientists,
3. Number of scientists and students who participated in FIO subsidized research cruises,

4. Number of courses supported by FIO vessels and laboratory facilities,
5. Summary of changes in safety policies, inspections, certifications, and any other aspect of ship operations that has or may affect safety of the crew or research party,

A goal of the FIO should be to provide research and education platform opportunities to all research scientists and marine educators along Florida's coasts. Ultimately, this will include the availability of platforms along the Florida Atlantic Coast. Issues arising from this need may include purchasing or renting vessel time, location(s) of berthing facilities, vessel size, etc. This issue should be revisited by the FIO Council on an annual basis. A decision to expand the FIO research platform capability is dependent on funding. Any proposal to expand these capabilities must include a strategic budgeting plan along with justification for purchase or rental. Such a plan must be approved by the Executive Committee and the FIO Council before being presented to the Provost of the University of South Florida. If approved by the Provost, this will be incorporated into the annual budget for FIO.

Appendix F: Ship time used for Previous Fiscal Year

In FY2010-11, the total numbers of days at sea for the research vessels are:

R/V Bellows = 180

R/V Weatherbird II = 150

This shows a marked increase in days at sea compared to FY2009-10, when the *R/V Bellows* was at sea for 118 days and the *R/V Weatherbird II* was at sea for 99 days.

These numbers include transit days, which were not paid for by the entity using the vessels. To overcome this loss in revenue, transit days will be charged as well as science days. Shiptime used in FY2010-11 by Institution and whether or not the cruise was related to the oil spill is in the table below.

<u>Institution</u>	<u>RV Bellows Days</u>		<u>RV Weatherbird II Days</u>	
	Science	Transit	Science	Transit
USF	45	4	8	
FWRI	23		18	
Eckerd	3			
FGCU	6	4		
FAMU	6	4		
UWF	18	13		
MML	4			
UCF	1			
FAU/HBOI	6			
NSU	6	6		
UF	4	2		
UNF	7	2		
SAIC (private)			8	
Sub Total	129	35	34	0
Oil Spill Related				
USF (USF funded)			16	
UWF/FSU (FIO)	8	8	11	9
USF/FWRI/FDEP (FIO)			36	
MML/FDEP (FIO)			11	
UF (FIO)			11	
FIU/FSU (FIO)			15	
FSU/FAMU (FIO)			5	2
Sub Total (Oil Spill)	8	8	105	11
TOTAL	137	43	139	11

Appendix G: Inventory of research vessels around Florida

This is a living document, last updated on June 10, 2011.

Host Institution/Owner	Vessel (Name or Type)	Size	Home Port	Daily Rate					
FIO	R/V Bellows	71'	St. Petersburg	\$4,500					
FIO	R/V Weatherbird II	115'	St. Petersburg	\$9,000					
Keys Marine Lab	R/V Diodon	30'	Long Key	\$300/day +fuel					
Keys Marine Lab	R/V MolaMola	25'	Long Key	\$200/day + fuel					
Keys Marine Lab	R/V Tiburo	24'	Long Key	\$200/day + fuel					
Keys Marine Lab	R/V NariNari	18'	Long Key	\$150/day or self-captained \$100 + fuel					
Keys Marine Lab	Boston Whaler	13'	Long Key	\$50/day + fuel					
Mote Marine Lab	R/V Eugenie Clark	49'	Sarasota	Operator incld - \$1,800 (normal ops), \$2,200 (extended ops)					
Mote Marine Lab	Yellowfin	36' 8"	Sarasota	Operator incld - \$800 (normal ops), \$1000 (extended ops)					
Mote Marine Lab	Ahi Pax	36'	Sarasota	Operator incld - \$800.00 (normal ops)					
Mote Marine Lab	Ali Cat	30'	Sarasota	Operator incld - \$800 (normal ops), \$1000 (extended ops)					
Mote Marine Lab	Alegator	29'	Sarasota	Operator incld - \$800.00 (normal ops)					
Mote Marine Lab	ONO V	28'	Sarasota	Operator incld - \$450.00 (normal ops)					
Mote Marine Lab	Claire G	25'	Sarasota	Operator incld - \$450.00 (normal ops)					
Mote Marine Lab	Lady Lynne	25'	Summerland K	Operator incld - \$450.00 (normal ops)					
Mote Marine Lab	Parker #3	25'	Summerland K	Operator incld - \$450.00 (normal ops)					
Mote Marine Lab	Anna B.	24'2"	Sarasota	Operator incld - \$350.00 (normal ops)					
Mote Marine Lab	Leucas	22'8"	Sarasota	Operator incld - \$300.00 (normal ops)					
Mote Marine Lab	Myakka	17'	Sarasota	Operator incld - \$150.00 (normal ops)					
RSMAS/U. Miami	R/V F. G. Walton Smith	96'	Miami						
Smithsonian Marine S	R/V Sunburst	39'	Fort Pierce	Operator (2 crew) incld - \$800					
Smithsonian Marine S	Triumph	21'	Fort Pierce	Operator incld - \$300					

Eckerd College	MS2	24' 9"	St. Petersburg	\$300 plus fuel		
Eckerd College	MS3	19'	St. Petersburg	\$200 plus fuel		
Eckerd College	Dolphin Research	18'	St. Petersburg	\$200 plus fuel		
Eckerd College	Beachcat	32'	St. Petersburg	\$500 plus fuel		
FIU - SERC	AIRBOAT 15N	15'	Miami	\$100/day + fuel & oil		
FIU - SERC	JON BOAT	14'	Miami	\$65/day + fuel & oil		
FIU - SERC	SMITTY SKIFF	16'	Miami	\$90/day + fuel & oil		
FIU - SERC	MAKO 17	17'	Miami	\$125/day + fuel & oil		
FIU - SERC	MAKO 21	21'	Miami	\$125/day + fuel & oil		
FIU - SERC	PARKER 21	21'	Key Largo	\$125/day + fuel & oil		
FIU - SERC	CAROLINA SKIFF 19	19'	Miami	\$125/day + fuel & oil		
FIU - SERC	PARKER 18-1	18'	Miami	\$125/day + fuel & oil		
FIU - SERC	PARKER 18-2	18'	Miami	\$125/day + fuel & oil		
FIU - SERC	PARKER 18-3	18'	Key Largo	\$125/day + fuel & oil		
FIU - SERC	PROLINE 21	21'	Miami	\$150/day + fuel & oil		
FIU - SERC	TWIN VEE 26 (on order)	26'	Key Largo	\$200/day + fuel & oil		
UF - Seahorse Key	R/V Discovery	42'	Cedar Key	\$70/hr inshore, \$90/hr offshore		
UF - Seahorse Key	Carolina Skiff	21'	Cedar Key	\$100/day plus fuel		
UF - Seahorse Key	Skiff	16'	Cedar Key	\$40/day plus fuel		
UF - Seahorse Key	Skiff	16'	Cedar Key	\$40/day plus fuel		
U. West Florida	Rhino	27'	Pensacola			
U. West Florida	Pontoon	26'	Pensacola	\$250		
U. West Florida	Seahorse	25'	Pensacola	\$400		
U. West Florida	Boston Whaler	25'	Pensacola	\$400		
U. West Florida	Pontoon	24'	Pensacola	\$200		
U. West Florida	Pontoon	22'	Pensacola	\$200		
U. West Florida	Cape Horn	21'	Pensacola	\$400		
U. West Florida	Sea Ark	21'	Pensacola	\$200		
U. West Florida	Duracraft	21'	Pensacola	\$200		
U. West Florida	Rhino	21'	Pensacola	\$200		
U. West Florida	Baby Whaler		Pensacola	\$200		
U. West Florida	Landau	16'	Pensacola	\$150		
U. West Florida	Game Fisher		Pensacola	\$150		
U. West Florida	MSC Barge (research barge)	36'	Pensacola	\$45 plus \$150/hour setup fee		

FAMU - ECSC	Carolina Skiff	19'	Eastpoint (Apalachicola NERR)	\$200 plus fuel					
FAMU - ECSC	R/V Rattler Pontoon boat	18'	Eastpoint (Apalachicola NERR)	\$200 plus fuel					
FSU - Coastal & Marine Lab	R/V Callinectes		St. Teresa	Non-FSU rate: \$520/half day; \$1040 (0700-1700); \$1560 (24 hour day) + fuel					
FSU - Coastal & Marine Lab	Catamaran	28'	St. Teresa	Non-FSU rate: \$75/half day; \$150 (0800-1700) + fuel + \$32.50 FSUML oper.					
FSU - Coastal & Marine Lab	Catamaran	28'	St. Teresa	Non-FSU rate: \$75/half day; \$150 (0800-1700) + fuel + \$32.50 FSUML oper.					
FSU - Coastal & Marine Lab	Privateer	20'	St. Teresa	Non-FSU rate: \$75/half day; \$150 (0800-1700) + fuel + \$32.50 FSUML oper.					
FSU - Coastal & Marine Lab	Polar	18'	St. Teresa	Non-FSU rate: \$75/half day; \$150 (0800-1700) + fuel + \$32.50 FSUML oper.					
FSU - Coastal & Marine Lab	Cape Horn	17' 9"	St. Teresa	Non-FSU rate: \$75/half day; \$150 (0800-1700) + fuel + \$32.50 FSUML oper.					
FSU - Coastal & Marine Lab	Carolina Skiff	16'	St. Teresa	Non-FSU rate: \$75/half day; \$150 (0800-1700) + fuel + \$32.50 FSUML oper.					
FGCU - Vester Field Station	Pontoon Barge	30'	Bonita Springs						
FGCU - Vester Field Station	Grady White Sailfish	27'	Bonita Springs						
FGCU - Vester Field Station	C-Hawk	25'	Bonita Springs						
FGCU - Vester Field Station	Deck Boat	20'	Bonita Springs						
FGCU - Vester Field Station	Pontoon Boat	20'	Bonita Springs						
FGCU - Vester Field Station	Carolina Skiff	19'	Bonita Springs						
FGCU - Vester Field Station	Center Console	17'	Bonita Springs						
FGCU - Vester Field Station	21 Canoes/2 Kayaks		Bonita Springs						
NSU Oceanographic Center	R/V Explorer	38'	Dania Beach	Available only for internal or collaborative project use					
NSU Oceanographic Center	R/V Panacea	29'	Dania Beach	Available only for internal or collaborative project use					
NSU Oceanographic Center	R/V Voyager	29'	Dania Beach	Available only for internal or collaborative project use					
NSU Oceanographic Center	R/V Researcher II	29'	Dania Beach	Available only for internal or collaborative project use					
NSU Oceanographic Center	R/V Surveyor	25'	Dania Beach	Available only for internal or collaborative project use					
NSU Oceanographic Center	R/V Navigator	25'	Dania Beach	Available only for internal or collaborative project use					
NSU Oceanographic Center	R/V Lucy Forman	22'	Dania Beach	Available only for internal or collaborative project use					
USF	R/V Fish Hawk	35.7'	St. Petersburg	\$1000 for Bay, \$1500 for Coastal (<50nm outside Bay).					
				\$2,000 for Deep Water (<100nm outside Bay). All-day rates include fuel					

OTHER							
EPA	OSV Bold	224'	Port Canaveral	Not sure if this is for hire - rates unknown			
Private	Lost Coast Explorer	98'	Pascagoula	For hire for west/east FL work - rates unknown			
USGS	R/V Gilbert	42'	St. Petersburg				
Dauphin Island Sea Lab	R/V Alabama Discovery	65'	Dauphin Island, Alabama				
Dauphin Island Sea Lab	R/V E. O. Wilson	46'	Dauphin Island, Alabama				
Dauphin Island Sea Lab	Outboard boats & Skiffs	14'-30'	Dauphin Island, Alabama				
University of Southern Mississippi	R/V Tommy Munro	97' 6"	Biloxi, Mississippi				
University of Southern Mississippi	R/V Tom McIlwain	55'	Biloxi, Mississippi				
University of Southern Mississippi	R/V Hermes	38'	Biloxi, Mississippi				
LUMCON	R/V Pelican	116'	Chauvin, LA	\$9,000			
LUMCON	R/V Acadiana	58'	Chauvin, LA				
LUMCON	Small boats		Chauvin, LA				
NOAA	R/V Gordon Gunter	224'	Pascagoula, Mississippi				
NOAA	R/V Oregon II	170'	Pascagoula, Mississippi				
NOAA	R/V Pisces	209'	Pascagoula, Mississippi				
NOAA	R/V Ronald H. Brown	274'	Charleston, SC				
NOAA	R/V Nancy Foster	186'	Charleston, SC				
Skidaway Institute of Oceanography,	R/V Savannah (UNOLS)	92'	Skidaway	\$8,600			

Appendix H: FIO FY10-11 Grants List

Project #	Title	Sponsor	PI	Fund	F/R	Beg. Date	End Date	Budget
Active Projects FY 10/11								
4710104800	Operation and Maintenance of SEAKEYS	NOAA	W. Hogarth	20000	Reim.	8/24/2006	9/30/2011	\$ 571,086
4710104801	Benthic Monitoring	NOAA	W. Hogarth	20000	Reim	8/24/2006	9/30/2011	\$ 396,941
4710104802	Enhancement of HAB Observing System (HABSOS)	NOAA	W. Hogarth	20000	Reim	8/24/2006	9/30/2011	\$ 50,000
4710108500	GOMA program support	FDEP/NOAA	J. Virmani	20000	Reim.	10/1/2008	8/31/2011	\$ 709,274
4710109000	Resource Monitoring	FDEP/EPA	J. Virmani	20000		7/1/2007	8/31/2011	\$ 249,665
4710109100	Using Artificial Neural Network to Model Toxic Phytoplankton Abundance in Saginaw Bay	U. Mich/NOAA	D. Millie	20000		7/1/2008	6/30/2012	\$ 41,775
4710109300	HABSOS Bi-national Workshops	EPA	K. Steidinger	20000	Reim.	12/1/2008	11/30/2011	\$ 329,766
4710109400	Gulf of Mexico Alliance Ecosystem Mapping	Texas A&M	J. Virmani	20000	Reim.	10/1/2008	9/30/2011	\$ 284,550
4710109800	Statistical-Based Modeling and Prediction	U. of Michigan	D. Millie	20000	Reim.	7/1/2009	6/30/2012	\$ 147,254
4710110000	Bi-national Training Workshops on HABs in Support of HABSOS	EPA	K. Steidinger	20000	Reim	4/1/2010	3/31/2012	\$ 237,450
4710110100	Florida Coastal Sentinels; Active Monitoring of the Fate of the DWH Disaster Oil and Chemical Dispersants.	British Petroleum	W. Hogarth	22000	Fixed	8/13/2010	8/12/2011	\$ 10,000,000
4710110200	HAB Monitoring and Event Response	FWC	S. Vargo	21000	Fixed	7/1/2010	11/30/2010	\$ 15,422
4710110300	HAB Website and Database Maintenance	FWC	S. Vargo	21000	Fixed	7/1/2010	11/30/2010	\$ 16,508
4710110400	Scientific Copyediting	FWC	J. Virmani	21000	Fixed	7/1/2010	9/30/2011	\$ 72,336
4710110500	Harmful Algal Bloom Response	FWC	K. Steidinger	21000	Fixed	7/1/2010	7/1/2011	\$ 42,829
4710110600	Use of High Pressure Liquid Chromatography for the Detection of <i>Karenia brevis</i> blooms in the GOM	FWC/EPA	D. Mille	20000	Reim.	7/7/2010	30/06/2011	\$ 4,000
4710110700	Gulf of Mexico Alliance: Identification	TAMUCC	C. Carollo	21000	Reim.	3/1/2010	12/13/2010	\$ 15,467

	and Characterization of Gulf Habitat Priority Issue Team (Ecosystem Services)								
4710110800	Continued Operation and Maintenance of the SEAKEYS Network	SECOORA/NOAA	J. Virmani	20000	Reim.	8/1/2010	11/30/2011	\$	41,679
4710110900	Oil Spill Scientific and Technical Support for the DWH Oil Spill	FWC	S. Vargo	21000	Reim.	10/4/2010	12/31/2010	\$	27,741
4710111000	Synergistic Modeling of Coastal Environmental Change	FWC/NOAA	D. Millie	20000	Fixed	11/22/2010	5/15/2011	\$	49,531
4710111100	A Robotic Sampler-Mass Spectrometer for in-water detection of cyanotoxins	U. Michigan	D. Mille	20000	Reim	7/01/2010	6/30/2012	\$	226,718
4710	SECOORA: An Environmental Monitoring and Assessment Program to Support Decision-Makers Needs for Coastal and Ocean Data and Products	SECOORA	J. Virmani		Reim	7/01/2011	7/31/2012	\$	52,250
Direct Billing	KML Support	FWC	S. Vargo	21000	Fixed			\$	94,341
								FY2010/11	
								Total	\$ 13,676,583

Appendix I: Revised Keys Marine Lab Vision and Mission Statements

(Approved by KML Management Board, February 2011)

Vision Statement

The Keys Marine Laboratory (KML) will be a statewide, national, and internationally renowned research and education facility in the Florida Keys.

Mission Statement

The KML mission is to:

- (1) Provide high-quality facilities and scientific support for visiting researchers and educational groups from across Florida, the U.S. and the world. This will include, but is not limited to, highly skilled staff with local knowledge, overnight accommodation, laboratories, classrooms, and vessels;
- (2) Host and assist in the development of state-wide educational courses to cater to the needs of the State of Florida, FIO Members, and FWC Stakeholders;
- (3) Develop and conduct outreach activities to promote the activities of KML and a greater awareness of the marine environment to the local community and other visitors to the Keys;
- (4) Develop and maintain an active in-house research program that is focused on the diverse marine environment of the Keys.

Appendix J: Gulf Research Initiative RFP Information

Five Thematic Areas for GRI RFP:

1. Physical distribution, dispersion, and dilution of petroleum (oil and gas), its constituents, and associated contaminants (e.g., dispersants) under the action of physical oceanographic processes, air–sea interactions, and tropical storms.
2. Chemical evolution and biological degradation of the petroleum/dispersant systems and subsequent interaction with coastal, open-ocean, and deep-water ecosystems.
3. Environmental effects of the petroleum/dispersant system on the sea floor, water column, coastal waters, beach sediments, wetlands, marshes, and organisms; and the science of ecosystem recovery.
4. Technology developments for improved response, mitigation, detection, characterization, and remediation associated with oil spills and gas releases.
5. Fundamental scientific research integrating results from the other four themes in the context of public health.

Letter from Chancellor Brogan to FIO Members concerning GRI RFP and FIO:

To: FIO member institutions
From: Frank Brogan, Chancellor, State University System of Florida
Date: May 3, 2011
Subject: Coordinating Florida’s Response to the Gulf of Mexico Research Initiative (GRI) through the Florida Institute of Oceanography (FIO)

As you know, the Florida Institute of Oceanography (FIO) has distinguished itself over the past year in coordinating a unified, statewide response to the *Deepwater Horizon Oil Spill* — being recognized nationally as a model of collaboration. It is notable that FIO, along with the Northern Gulf Institute and NIH, received an initial award of \$10 million — the largest allocation of fast track research grant funding distributed to any statewide entity or multi-state organization by BP last year.

The FIO’s mission is to (1) provide a diverse and collaborative statewide forum addressing problems of concern in coastal oceanographic research and education; (2) leverage and integrate existing physical and intellectual resources within the State University System (SUS) and throughout Florida; (3) anticipate and plan for future infrastructure needs; (4) facilitate, promote and support collaborative ocean-related research and education statewide; and (5) develop and strengthen networks that enable timely identification of oceanographic research opportunities and distribution of research results and other information to the general public, natural resource management agencies and local, state and national policymakers. I am sure you will agree that it is essential to

the State of Florida and our membership that we maintain our position of strength through collaboration and coordination.

Recently, the *Gulf of Mexico Research Initiative* (GRI) released its Request for Proposals, inviting Letters of Intent to conduct studies into the effects of the *Deepwater Horizon* incident and the potential associated impact on the environment and public health. With a commitment of funding in the amount of \$500 million over 10 years, it is anticipated that the GRI will support a number of associated research centers in the Gulf states and, perhaps, beyond. As faculty and scientists at FIO member institutions contemplate submitting Letters of Intent (perhaps in collaboration with FIO partners and other institutions), I encourage you — where appropriate — to identify the FIO as a co-PI in recognition of its coordinating role and ability to bring its combined assets to bear in serving its membership. Now is the time to further reinforce FIO's collaborative nature and position of strength — one that is well-respected by our elected officials in Washington and Tallahassee. This will best position Florida to compete successfully for much-needed research funding now and in the future. I am confident that Florida's talented oceanographers and marine scientists will continue to lead the way in responding to the Gulf of Mexico's recovery efforts.

In conclusion, I would like to extend my appreciation to all FIO member institutions, FIO Executive Committee Chair Dr. Shirley Pomponi, FIO Interim Director Dr. Bill Hogarth, and the FIO staff for their efforts over the past year. You may forward your Letters of Intent through the FIO Associate Director Dr. Jyotika Virmani (jyotika@usf.edu or 727-553-3370), who also can assist with any questions you may have about the process.

Details of FIO Participation in RFP I

The FIO PI on these is the Associate Director.

Center Name	Lead/Direct or Institution	FIO Role	Amount Requested for FIO	Theme Addressed
GOMED	FIO/UCF	Center Management/ Data Management/Shiptime	\$19, 924, 256	3
C-MISST	FIO/USF	Center Management/ Data Management/Shiptime	\$20, 264, 129	4
CEsAR	FAU/FAU	Center Management/Data Management	\$756,035	3
Deep-C	FSU/FSU	Shiptime	\$1,143,225	1,2,3,4
BARREL	USF/USF	Internal Communications	\$148,628	1,2,3,4
C-IMAGE	USF/USF	Shiptime	\$2,180,060	1,2,3
ROCC	NSU/NSU	Advisory Board (Dr. Virmani)	\$77,480	3
NextGen	UCF/UCF	Administration and internal communications	\$249,673	4
IOS R&D	FAU/FAU	Shiptime	\$521,175	4
MDSTSN	UF/UF	Shiptime	\$88,525	4
C-GEARS	UM/UM	Advisory Board (Dr. Virmani)	\$0	1,2,3

Appendix K: Auxiliary Expenditures

R/V Weatherbird II Auxiliary

(account held under College of Marine Science)

Actual Expenditures

	FY09/10	FY10/11
Staff Salaries	\$182,093	\$280,690
Bonuses	\$0	\$16,500
OPS	\$22,036	\$144,876
Fringe-Matching	\$56,803	\$96,527
Travel	\$1,011	\$0
Registration/Conference/Membership	\$0	\$0
Telephone and Data Communications	\$3,606	\$22,250
Contractual Services	\$49,259	\$6,734
Rental Space	\$600	\$0
Printing and Duplication	\$19	\$0
Subscriptions	\$0	\$0
Computer Related Materials	\$399	\$898
Materials, supplies and equipment	\$173,914	\$275,610
Repairs/Maintenance, Renovation	\$239,398	\$78,747
Risk Management Insurance	\$12,753	\$16,265
Other Operating Expenses	\$7,862	\$139,164
OCO	\$204,816	\$9,610
Grand Total	\$954,569	\$1,087,871

R/V Bellows Auxiliary
Actual Expenditures

	FY09/10	FY10/11
Staff Salaries	\$43, 986	\$103,584
Bonuses	\$0	\$4,107
OPS	\$10,068	\$37,676
Fringe-Matching	\$13,117	\$0
Travel	\$1,320	\$0
Registration/Conference/Membership	\$200	\$0
Telephone and Data Communications	\$3, 209	\$10,237
Contractual Services	\$7,058	\$9,889
Rental Space	\$0	\$0
Printing and Duplication	\$0	\$0
Subscriptions	\$90	\$0
Computer Related Materials	\$0	\$0
Materials, supplies and equipment	\$103,960	\$119,958
Repairs/Maintenance, Renovation	\$30,039	\$28,003
Risk Management Insurance	\$5,924	\$6,215
Other Operating Expenses	\$31,600	\$68,540
OCO	\$0	\$0
Grand Total	\$250,571	\$388,209

Keys Marine Laboratory Auxiliary
Actual Expenditures

	FY09/10	FY10/11
OPS	\$14,127	\$14,225
Travel	\$0	\$590
Registration/Conference/Membership	\$600	\$0
Telephone and Data Communications	\$9,162	\$8,381
Contractual Services	\$36,831	\$21,413
Printing and Duplication	\$0	\$0
Subscriptions	\$0	\$0
Computer Related Materials	\$55	\$988
Materials, supplies and equipment	\$29,760	\$45,465
Repairs/Maintenance, Renovation	\$29,861	\$27,092
Utilities	\$36,606	\$23,814
Other Operating Expenses	\$5,842	\$9,394
OCO	\$0	\$3,347
Grand Total	\$162,844	\$154,709