

**Timeline of Recent Research and Restoration Events**

**March 28** – Glenn Coldren led a shell bagging with 17 volunteers creating 272 bags of shell.

**March 29** – Pam Hopkins lead a Brazilian ‘Pepper Busting’ event with the FOS Green Team and 3 staff from the Martin County Mosquito Control Unit.

**April 2** – Two interns (Nike Dekkers and Oliver Klokman) began with the research department. They are working on seagrass and sediment elevation projects. Nike is visiting from the Netherlands.

**April 6** – Glenn Coldren attended Oyster Fest in Fort Pierce and assisted with the Florida Oceanographic booth at the festival.

**April 6 – 9** – Microplastic Sampling for Month of April completed.

**April 10** – Glenn Coldren participated in the kick off meeting for oyster monitoring under the John Engineering subcontract.

**April 11** – Glenn Coldren, Kathryn Tiling, Pam Hopkins attended the Impact 100 grant award ceremony. Our proposal was one of three finalists. Research attended the “New Research to Inform Living Shoreline Design, Placement and Monitoring” webinar hosted by National Estuarine Research Reserve Systems (NERRS) Science Collaborative.

**April 13** – Glenn Coldren lead a shell bagging with 14 volunteers from Boy Scout Troop #822 creating 312 bags of shell.

**April 17** – Monitoring of restored oyster reefs was completed by Glenn Coldren and research staff in conjunction with Martin County and Vincent Encomio (Florida Sea Grant).

**April 18** – Kathryn Tiling participated in the education event, FLOORED, as a representative from research department during the shell bagging and deployment stages.

**Seagrass Nursery Expansion:**

- Electrical work for all the nurseries was completed in April. Drain lines have been installed in the main nursery. Pump placement has been finalized and inflow lines are being placed. Shoreline nursery tanks were cleared of debris and prepped for lining. The research wet lab continues to operate.

**Research and Conservation Department Fiscal Year 2019**

Proj. #	Project Title	Staff	External Funds?	Funding Type	Source	Funding Amount to FOS	Fiscal Year	Income	Expense	Status	Income Type	Expected Income Year	Expected Income Month
4	Seagrass nursery expansion	KT, GC	Yes	Donations	Oceans Alive Cash Call	\$72,000	2018-2019	4835	6335	In progress	Ocean's Alive Cash Call	FY18 - FY19	Already Received
<b>Notes</b>	Work extending into 2019; FY18 was 4680 Income and 5690 Expense; Changed in FY19 to 6335 Expense												
<b>Progress</b>	Research wet lab is operational. In and out flow are being worked on in the main nursery. Shoreline nursery is being prepped for liners.												
5	Sewall's Point Living Shoreline	GC	Yes	Donation	Private	\$5,600	2019	4680	5700	In progress	One Time Payment @ Completion	FY 2019	June/July 2019
<b>Notes</b>	Moved into FY19 due to discharges; Funds personnel time for surveys, permitting and reef construction												
<b>Progress</b>	All reefs built. Mangrove planters still to be added. Possible expansion of near shore reef, pending home owner decision.												
6	Mapping of oyster reefs in St. Lucie River	GC	Yes	Govt. contract	SFWMD to Johnson Engineering (contractor)	\$6,214	2019	4680	5700	In progress	One Time Payment @ Completion	FY 2019	August 2019
<b>Notes</b>	Partnership: Subcontract through Johnson Engineering; Funds personnel (Research Associate)												
<b>Progress</b>	Sonar mapping is ongoing. Our group will begin ground truthing in May 2019.												
7a	Assessing the effects of restored oyster reefs and seagrasses on shoreline stabilization.	GC, KT	Yes	Competitive Grant	IRL NEP	\$4,812	2019	4680	5690	In Progress	One Time Payment @ Completion	FY 2019	August 2019
<b>Notes</b>	Minigrant; Funds supplies												
<b>Progress</b>	Contract to be executed 3/20/2019. SET installation will begin in April 2019.												
8	Immersing CORE (Community Oyster Restoration Enhancement) Modules Into Restoration and Education	GC	Yes	Competitive Grant	IRL NEP	\$2,440	2019	4680	5690	In progress	One Time Payment @ Completion	FY 2019	August 2019
<b>Notes</b>	Partnership: Florida Sea Grant; Minigrant; Funds supplies												
<b>Progress</b>	Contract to be executed 3/20/2019. Cores will be built and Deployed with 2019 Summer camps from FOS, Smithsonian, and Palm Beach Zoo.												
10	Lululemon	GC	Yes	Donation	Lululemon	\$3,000	2019	4680	5690	Complete	One Time Payment @ Initiation	FY 2019	Already Received
<b>Notes</b>	Partnership: Donated by Lululemon												
<b>Progress</b>	Received funds, Oyster restorations activities were completed on February 22-24, 2019.												
14	Research Lab Replacement Trailer	GC	Yes	Donations	Private	\$28,000	2019	TBD	TBD	In progress	One Time Payments via Donors	FY 2019	Already Received
<b>Notes</b>	Private donation to fund replacement of research lab												
<b>Progress</b>	Design completed; working on finalizing quotes and specs.												

<b>FY 2019 Expected Income</b>
<b>\$47,066</b>
<b>FY 2019 Research Capital Funds</b>
<b>\$100,000</b>

Proj. #	Project Title	Staff	External Funds?	Funding Type	Source	Funding Amount to FOS	Fiscal Year	Income	Expense	Status	Income Type	Expected Income Year	Expected Income Month
7b	New planting methods to enhance the resiliency of Living Shorelines	GC	Yes	Competitive Grant	IRL License Plate Grant; SFWMD	\$16,273	2019	4680	5700	In progress	One Time Payment @ Completion	FY 2020	October 2019
<b>Notes</b>	Funds personnel (Research Associate)												
<b>Progress</b>	First and second quarter completed and report submitted. Oyster deployments are ongoing as needed to meet the project. Delay in start date resulted in final payment to fall into October 2019 and FY 2020												
9	Microplastics in the IRL	GC, PH	Yes	Competitive Grant	IRL NEP; UCF project lead	\$14,998	2019	4680	5640	In progress	One Time Payment @ Completion	FY 2020	February 2020
<b>Notes</b>	Partnership: University of Central Florida; Funds part-time Research Assistant and supplies												
<b>Progress</b>	In progress; Sampling through April completed												
11a	Jensen Beach Impoundment Mangrove Restoration Project	GC	Yes	Competitive Grant	State Wildlife Grant; subcontract from MC	\$4,800	2019	TBD	TBD	Awarded; Waiting for final agreements	One Time Payment @ Completion	FY 2020	March 2020
<b>Notes</b>	Partnership: Martin County; JB Impoundment restoration; funds personnel (Research Associate)												
<b>Progress</b>	Award work is anticipated to start March 1, 2019												
11b	Jensen Beach Impoundment Restoration IRMA funding	GC	Yes	Competitive FWC IRMA funds	FWC Funds for IRMA recovery; subcontract from MC	\$6,000	2019	4680	5700	Awarded; Waiting for final agreements	TBD	TBD	TBD
<b>Notes</b>	Partnership: Martin County; JB Impoundment restoration; funds personnel (Research Associate)												
<b>Progress</b>	Proposal submitted. Awaiting decisions. In Review												
12	Multiple Stressors and Mutualism Breakdown- When and where do we find positive effects of the seagrass bivalve interactions?	KT	Yes	Competitive Grant	NSF Biological Oceanography; subcontract from UF	\$25,000	2019-2021	TBD	TBD	Proposal in review; Unknown timeline			
<b>Notes</b>	Partnership: University of Florida; Staff time & supplies FOS commitment to restoration in Year 3 (2021)												
<b>Progress</b>	Due to federal government shutdown, the review is delayed indefinitely.												
13	Living Shorelines to Save Our Waters	GC	Yes	Competitive Grant	Impact 100	\$25,000	2019-2021	TBD	TBD	Awarded partial	One Time Payment @ Initiation	FY 2019/2020	May 2019
<b>Notes</b>	No Cost Share partnership with Seagrass and Martin County to expand shell recycling program and oyster restoration events.												
<b>Progress</b>	We were selected as finalist but was not selected for first place. We will still receive ~ \$25,000 in funding to perform a portion of the project.												
15	The role of seeds in the resilience and restoration of shoal grass, <i>Halodule wrightii</i> , in the Indian River Lagoon	KT	Yes	Competitive Grant	FL Sea Grant; UF project lead	-	2020-2021	-	-	Not Awarded			
<b>Notes</b>	Letter of Intent Submitted to a Florida Sea Grant RFP. Will fund part time salary and supplies. Budget will be updated if invited to a full proposal. It is a two year project.												
<b>Progress</b>	Received 2 positive and 1 negative review. Plan to continue to work with Co-PIs from UF and SJRWMD for alternative funding.												

<b>FY 2020 Expected Income</b>
<b>\$42,071</b>
<b>FY 2020 Research Capital Funds</b>
<b>\$0</b>