

Timeline of Recent Research and Restoration Events

February 28 – Kathryn Tiling hosted a volunteer breakfast event on the seagrass restoration program, FOSTER.

March 2 – 5 – Water sampling by FOS staff and volunteers for the microplastics begun. Samples are collected on a monthly basis and processed at FOS.

March 5 – Kathryn Tiling and Glenn Coldren attended a meeting on the “A Day in the Life” program to continue this program for 2019.

March 6 – Pam Hopkins gave a breakfast talk with volunteers entitled “FOS Water Quality Program – Past, Present and Future”.

March 6 – Pam Hopkins attended the quarterly meeting of the Martin County Board of Commissioners’ Agricultural and Natural Resources Advisory Committee (ANRAC).

March 8 – Glenn Coldren attended the Florida Academy of Sciences Conference in Melbourne, FL.

March 12 – Glenn Coldren held an oyster bagging and deployment event with the Smiths Interconnect group. A total of 300 bags were made and 400 bags were deployed at a restoration site in the St. Lucie Estuary.

March 12 – 18 – Diapoules and Sons Construction started and completed construction of the main seagrass nursery tables.

March 15 – Glenn Coldren partnered with partnered with Mike Yustin of Martin County Engineering and Vincent Encomio of Florida Sea Grant to work with George Mason University. This group built oyster reefs with bags and reef balls as well as planted mangroves at Indian River Side Park.

March 18 – Glenn Coldren met with a Boy Scout about building 2 oyster reefs in Jupiter, FL as part of his Eagle Scout project. We agree to partner with him.

March 20 – Mark Perry and Glenn Coldren made an initial site visit with a condominium organization in the St. Lucie Estuary to determine the feasibility of building a living shoreline on their property.

March 20 – Impact 100 Martin County conducted a site visit of Florida Oceanographic as part of the selection process.

March 23 – Glenn Coldren with 6 volunteers hosted a table at Water Fest in downtown Stuart.

March 25 – Glenn Coldren made an initial site visit with a homeowner in the South Fork to determine the feasibility of building a living shoreline on their property.

March 25 – Chain link fence around the Main Seagrass Nursery was completed.

March 27 – Kathryn Tiling held a seagrass matting and deployment with a group of students from the University of Missouri.

Seagrass Nursery Expansion:

- Research wet lab area is up and running. Tables were built and completed in the main nursery during March by Diapoules and Sons Construction. Chain link fencing was also installed. Plumbing of the nursery area will begin in April. Permanent electrical work is currently being worked on by Ault Electrical to support the pumps.

Current Research Interns:

- Arielle Velazquez, IRSC: oyster spat recruitment project
- Amber Heuston, FGCU: living shoreline projects and sediment elevation research

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
Notes	Work extending into 2019; FY18 was 4680 Income and 5690 Expense; Changed in FY19 to 6335 Expense												
Progress	The wet lab portion of the expansion is currently running. Seagrass from the original nursery was transferred and the original nursery was broken down. The tables for the main nursery are currently being built and plumbing is continuing on the wet lab and shoreline nurseries.												
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
Notes	Moved into FY19 due to discharges; Funds personnel time for surveys, permitting and reef construction												
Progress	4.5 of 5 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
Notes	Partnership: Subcontract through Johnson Engineering; Funds personnel (Research Associate)												
Progress	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
Notes	Minigrant; Funds supplies												
Progress	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
Notes	Partnership: Florida Sea Grant; Minigrant; Funds supplies												
Progress	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
Notes	Partnership: Donated by Lululemon												
Progress	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
Notes	Private donation to fund replacement of research lab												
Progress	Design completed; working on finalizing quotes and specs.												

FY 2019 Expected Income
\$22,066

FY 2019 Research Capital Funds
\$100,000

Research and Conservation Department Fiscal Year 2020

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
Notes	Funds personnel (Research Associate)												
Progress	First 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
Notes	Partnership: University of Central Florida; Funds part-time Research Assistant and supplies												
Progress	Work began Feb 1 2019; Was anticipated for 2019, but due to delays was given a no cost extension to 2020												
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
Notes	Partnership: Martin County; JB Impoundment restoration; funds personnel (Research Associate)												
Progress	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	Proposal Submitted, In Review			
Notes	Partnership: Martin County; JB Impoundment restoration; funds personnel (Research Associate)												
Progress	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			
Notes	Partnership: University of Florida; Staff time & supplies FOS commitment to restoration in Year 3 (2021)												
Progress	Due to federal government shutdown, the review is delayed indefinitely.												
13	Living Shorelines to Save Our Waters	GC	Yes	Competitive Grant	Impact 100	\$100,000	2019-2021	TBD	TBD	Full Proposal in Review			
Notes	No Cost Share partnership with Seagrant and Martin County to expand shell recycling program and oyster restoration events.												
Progress	Full Proposal In Review												
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	TBD	2020-2021	TBD	TBD	Letter of Intent Submitted, In Review			
Notes	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.												
Progress	Letter of Intent Submitted February 14, 2019.												

FY 2020 Expected Income
\$36,071

FY 2020 Research Capital Funds
\$0