

Timeline of Recent Research and Restoration Events

January 24 – Impact 100 Letter of Intent for Living Shoreline Project submitted. Glenn Coldren hosted a volunteer breakfast event with talks on salt marsh and mangrove restoration.

January 26 – Glenn Coldren held an oyster deployment event at Indian Riverside Park with the Martin County High School Green Club, deploying 500 bags.

January 28 – Collected oyster shell from the Salerno Seafood Festival. Approximately 200 bags worth of shell was collected from the event.

January 29 – Oyster shell drying table retrofit was completed as part of an Eagle Scout Project.

February 5 – Kathryn Tiling and Glenn Coldren filmed a short Florida Sportsman piece on seagrass and oyster restoration.

February 7 – Glenn Coldren, Kathryn Tiling, Pam Hopkins and interns, Arielle Velazquez and Amber Heuston attended the technical session of the Indian River Lagoon Symposium. Intern Arielle presented a poster on oyster settlement monitoring techniques. Kathryn presented a 3 min. 3 slide talk on using genetic diversity in seagrass restoration. Her talk was paired with Co-PI Laura Reynolds from UF on genetic diversity of seagrass in the IRL.

February 8 – Kathryn Tiling and Pam Hopkins attended the public forum of the Indian River Lagoon Symposium. They helped host a table about the center with Zack Jud during the event.

February 14 – Kathryn Tiling is a Co-PI on a Letter of Intent to Florida Sea Grant on seagrass reproduction and restoration implications, submitted on the 14th. Oyster Ts and cages were collected by staff and interns as part of an ongoing research project on oyster recruitment.

February 18 – A paper was submitted to Conservation Genetics with Kathryn Tiling as a co-author from research done under the FOS IRL NEP grant FY18.

February 22 – 23 – Glenn Coldren hosted a group from Lululemon for a two day restoration event. They participated in an oyster bagging (with 449 bags made) and a mangrove planting (with 285 planted) on Friday. On Saturday the same group participated in an oyster deployment at Indian Riverside Park, deploying 400 bags.

February 26 – Glenn Coldren had a conference call meeting with PEI Watershed Alliance to discuss oyster and salt marsh options for living shorelines restorations in their area.

February 27 – Impact 100 Martin County grant invited us for a full proposal, submitted on the 27th.

Seagrass Nursery Expansion:

- Research wet lab area is up and running. Seagrass from the original nursery was transferred by staff and volunteers into the new nursery. The original nursery was completely broken down. Permanent electrical work is currently being worked on by Ault Electrical to support the pumps. The construction of the tables in the main seagrass nursery has begun, with plumbing to be installed next.

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	Awarded, awaiting final agreement	One Time Payment @ Completion	FY 2019	August 2019
Notes	Minigrant; Funds supplies												
Progress	SET design with local machine shop but work is on hold pending final agreement from NEP; Kathy Hill of NEP said contracts in the works as of 2/25/19.												
8	Immersing CORE (Community Oyster Restoration Enhancement) Modules Into Restoration and Education	GC	Yes	Competitive Grant	IRL NEP	\$2,440	2019	4680	5690	Awarded, awaiting final agreement	One Time Payment @ Completion	FY 2019	August 2019
Notes	Partnership: Florida Sea Grant; Minigrant; Funds supplies												
Progress	Work will be performed with summer camps (Summer 2019); Kathy Hill of NEP said contracts in the works as of 2/25/19.												
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	Invited to full proposal			
Notes	No Cost Share partnership with Seagrass and Martin County to expand shell recycling program and oyster restoration events.												
Progress	Invited to full proposal. Submission by Feb 27, 2019												
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