

THE APALACHICOLA BAY SYSTEM INITIATIVE (ABSI)



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Community Workshop October 19, 2022



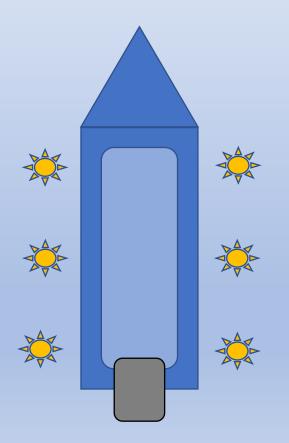
Reef surveys using tongs

6 samples per site

Volume: Rock, dead shell, live oysters Counted: spat, adults, market, boxes

Measured: live oysters (<25, 25-76, >76)

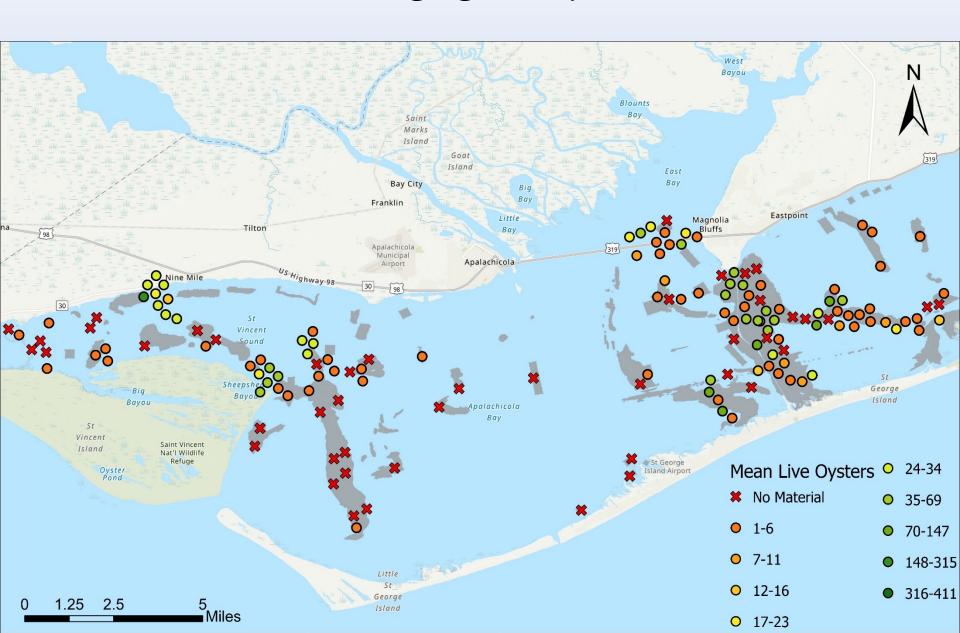




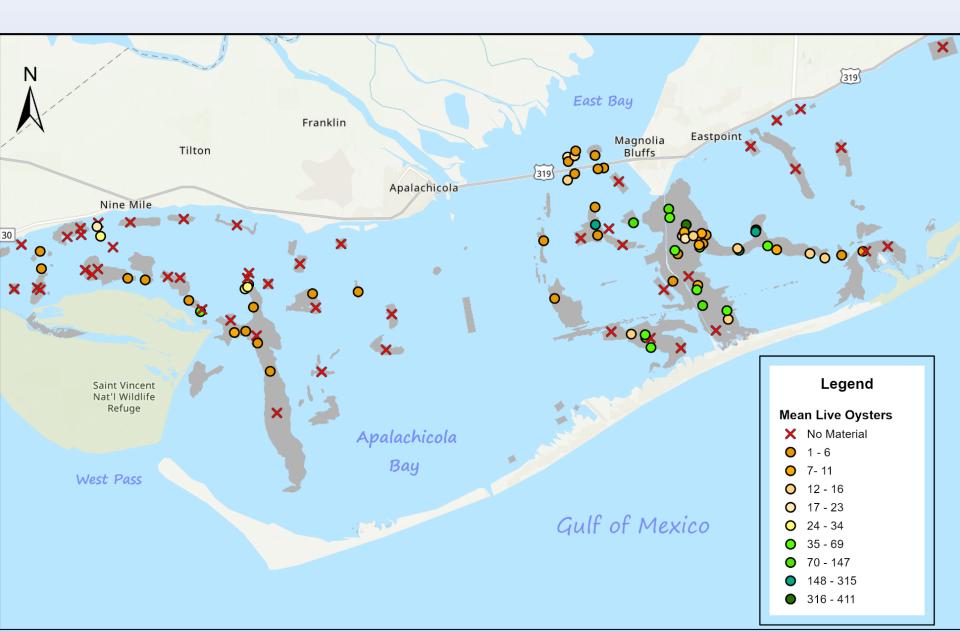




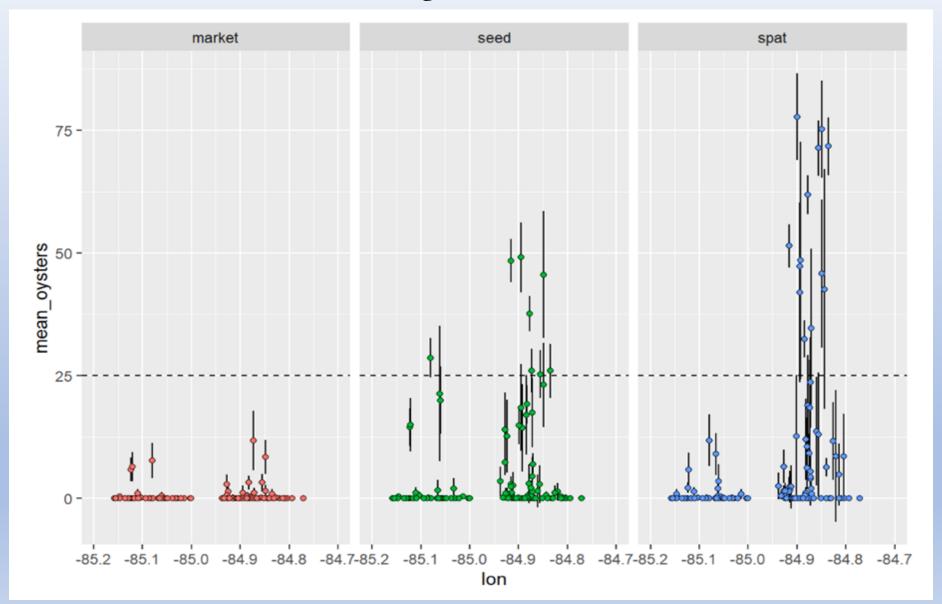
Sub-tidal tonging survey 2020-2021



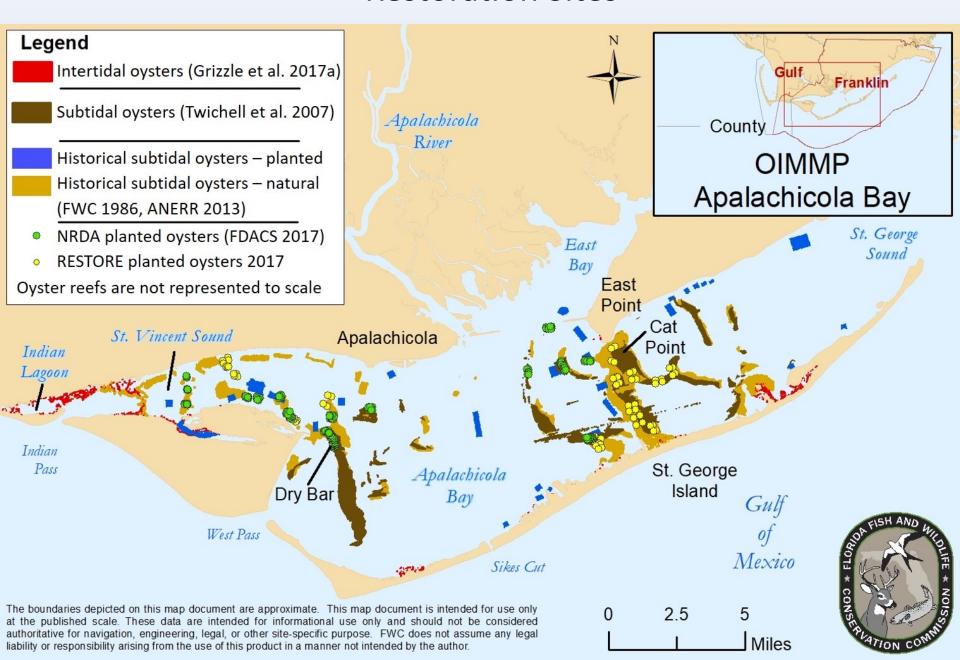
Sub-tidal tonging survey 2021-2022



Tonging data showing mean # oysters/site for different size classes relative to longitude (2021-22 data)



Restoration Sites



Only 3 sites (56 acres) of 55 reached the 300 bags/acre threshold

FWC monitoring 2022

	2022	2022 (Number of Bags Per Acre)			
Parcel Name	Jan	Feb	Mar	May	Sep
Bulkhead			0		0
North		29		14	
South		14		34	
Cabbage Top			58		29
Cat Point			0		0
Restoration	10			5	
Shallow	0			0	
Dry Bar North			0		0
East Lumps			0		0
Restoration	0			0	
Easthole #7			0		0
Green Point			5		48
6		14		96	
Halfmoon			5		0
East		0		0	
Hotel			0		0
West		0		0	
Lighthouse			5		0
Restoration		0		5	
8		0		0	
Normans			0		0
Paradise Flats			10		38
Platform			0		0
Porters			0		0

FLDEP RESTORE project Deployed 317 acres in 2017 Sampling 12/2020-6/2021

Site	Round 3	
8-Mile	175.07	
9-Mile B	4.80	
Cabbage Top	33.58	
Cat Point	97.53	
	441.27	
East Hole #1	31.18	
East Hole #2	2.40	
Hotel Bar #1	4.80	
Hotel Bar #2	28.78	
King 9-Mile	81.54	
	285.39	
North Spur #2	0.00	
	402.90	
	652.32	

FLDEP NRDA project
Deployed 124 acres in 2015
Sampling 7-12/2021

Site	Bags/acre	
Bayou Flats	23.98	
Cabbage Lumps	14.39	
Cabbage Top	0	
Cat Point	4.8	
Dry Bar	0	
Eleven Mile North	4.8	
Eleven Mile South	19.19	
Green Point	0	
Hotel Bar	0	
Lighthouse	16.79	
Little Gully	0	
Norman's Bar		
Middle	9.59	
Norman's Bar North	21.58	
North Spur	0	
Redfish Creek 1	4.8	
Redfish Creek 2	4.8	

Restoration Experiments

Objective: Identify <u>optimal location, materials and configuration</u> for restoration success



Restoration experiment May –June 2021

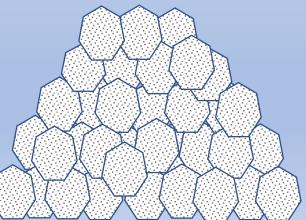
Reef size and height

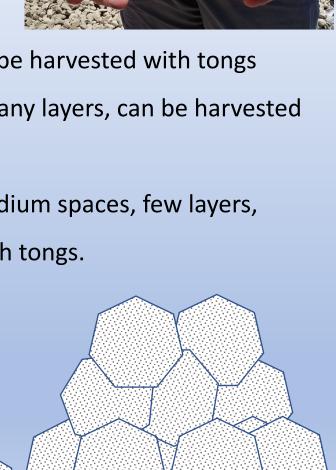
30 ft x 30 ft x 1 ft = 50 Cubic Yds of material

Materials

- Natural oyster shell good for spat settlement, can be harvested with tongs
- Small Limerock (2") creates mound, small spaces, many layers, can be harvested with tongs
- Large Limerock (6-8") creates stable structure, medium spaces, few layers,
 good for habitat development, can be harvested with tongs.

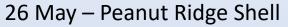








Deployment



27 May – Peanut Ridge Small Lime-rock

3 June – Dry Bar Small Lime-rock

4 June – Dry Bar Shell

9 June – Dry Bar Large Lime-rock

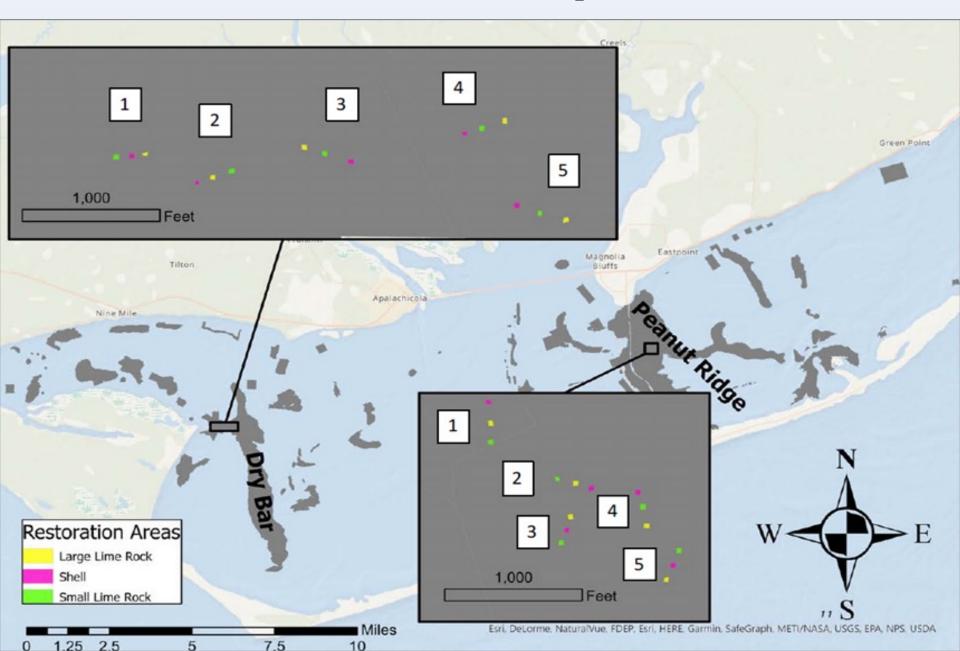
24 June – Peanut Ridge Large Lime-rock







ABSI Restoration Experiment





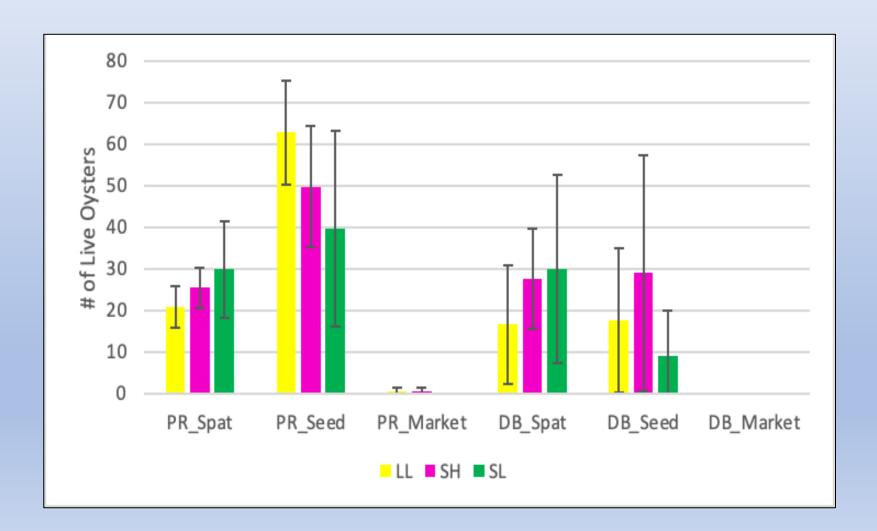
Tong sampling of ABSI restoration experiments
Aug-Sept 2022

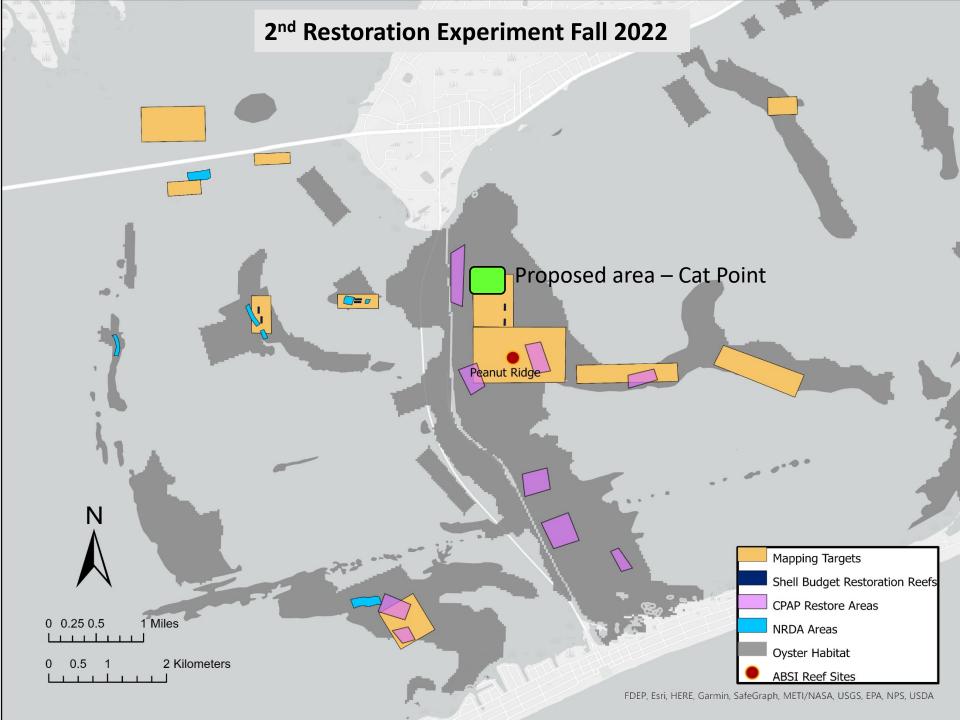




Results for restoration reefs

- Spat = < 25 mm
- Seed = 25-75 mm
- Market = >75 mm





Proposed ABSI Restoration Experiment Fall 2022 OPTION 1: Examine reef height

Location

NE Cat Point: 4 treatments, 5 replicates = 20 reefs (15 x 15 m)

Reef Height

25 cm (10 inches) 50 cm (20 inches)

Material Size

15-20 cm (6-8 inches) = Medium

Material Type

Limerock = occurs naturally in NW Florida, relatively stable

Proposed ABSI Restoration Experiment Fall 2022 OPTION 2: Examine different materials

Location

NE Cat Point: 4 treatments, 5 replicates = 20 reefs (15 x 15 m)

Reef Height

25 cm (10 inches)

Material Size

15-20 cm (6-8 inches) = Medium

Material Type

Limerock = occurs naturally in NW Florida, relatively stable Concrete = not natural, readily available, less expensive



We want to talk to you about oysters

- Betsy Mansfield- Researcher at FSU Marine Lab
 - emansfield@fsu.edu
- History of the oyster fishery & your experience with it
- Information about fishery collapse
- Information on impacts to the Bay after oyster collapse
- Information on management options

Feel free to contact me or find me after the meeting!

