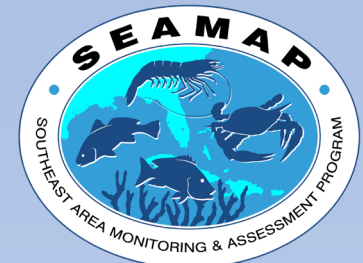


Summary of Florida 2023 SEAMAP Survey Efforts



SEAMAP Subcommittee
October 16 , 2023

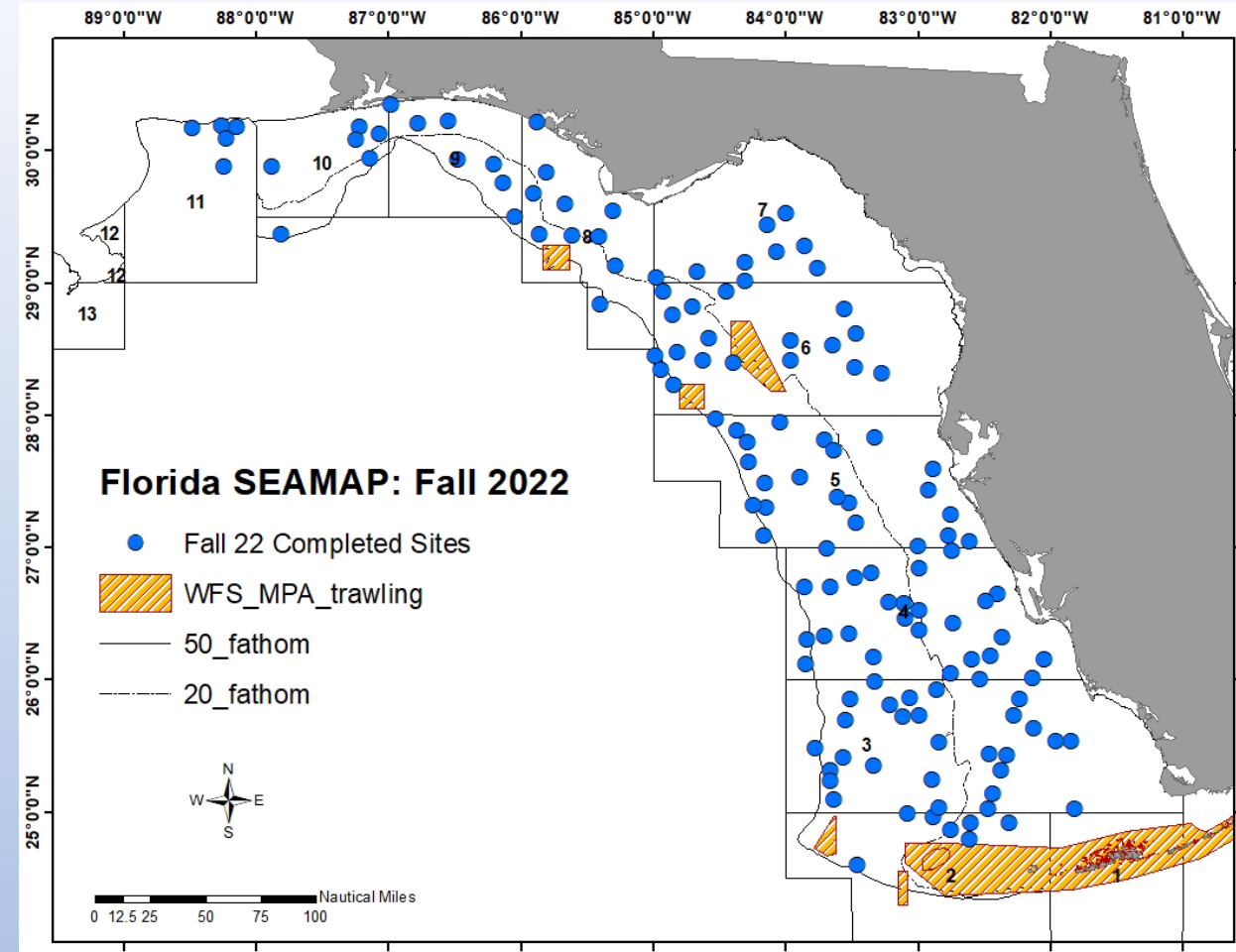


Florida Overview

- Groundfish trawling survey: Fa 2022, Su 2023, Fa 2023 (in progress)
- Reef fish survey: Su 2023 (90% complete)
 - Paired with GAJ project (acoustics, S. Atlantic sampling)
- Mapping survey: Su 2023 (rescan and new surveys completed)
- Collections: Specimens collected from groundfish trawl and boxes from ichthyoplankton sampling
 - Invertebrate ID workshop completed in St. Petersburg
- Database: Continued work towards unified annotation structure for reef fish survey and collections SQL cataloging application
- Analyses: Continued support for GMFMC requests

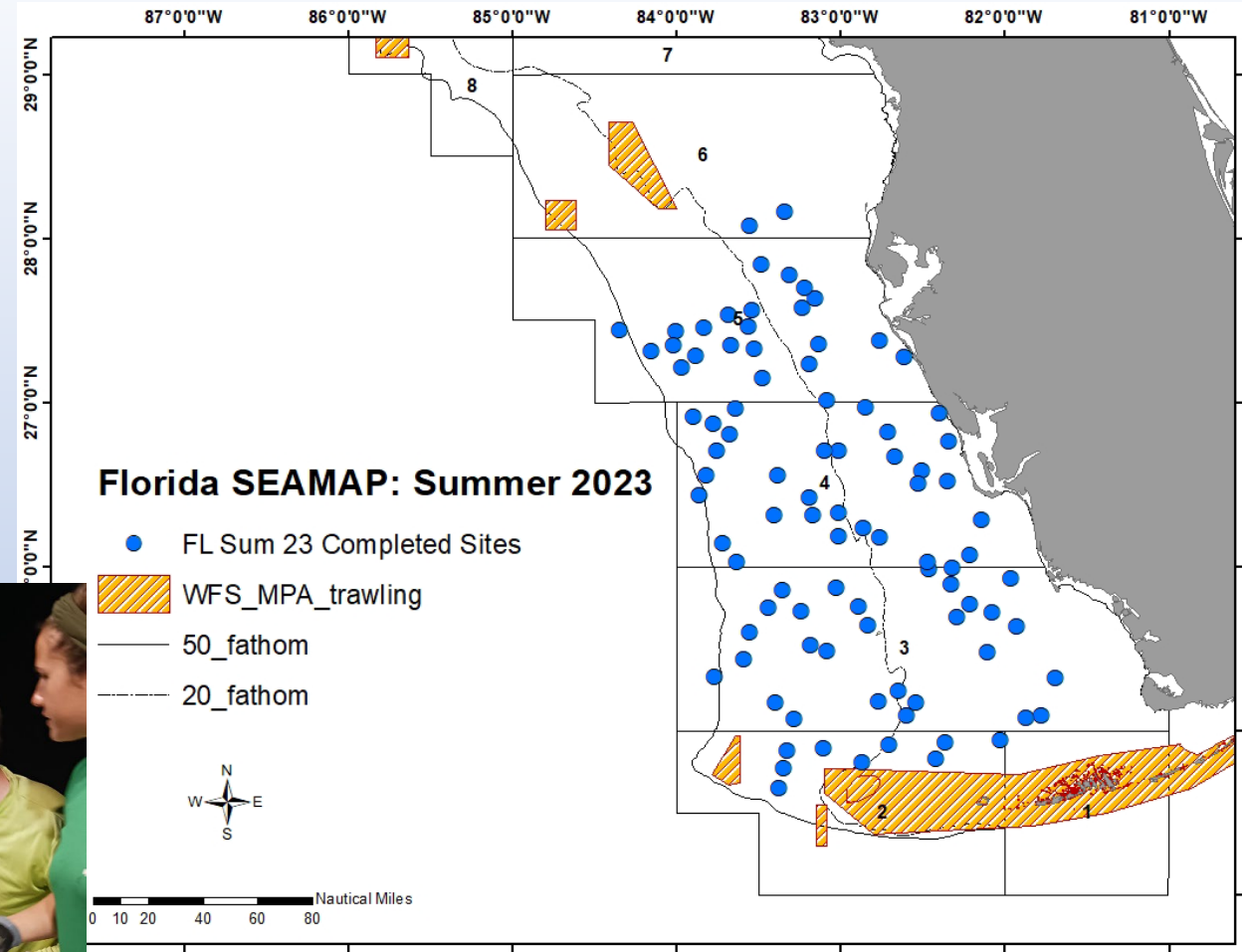
Groundfish Trawling

- Fall 2022 cruises completed
 - 139 stations (61,705 animals collected)
 - >4,000 returned for ID verification
- Numerous specimens retained:
 - 560 - age/growth
 - 713 - diet
 - 32 - genetics
 - 805 - mercury
 - 147 - external request/studies



Groundfish Trawling

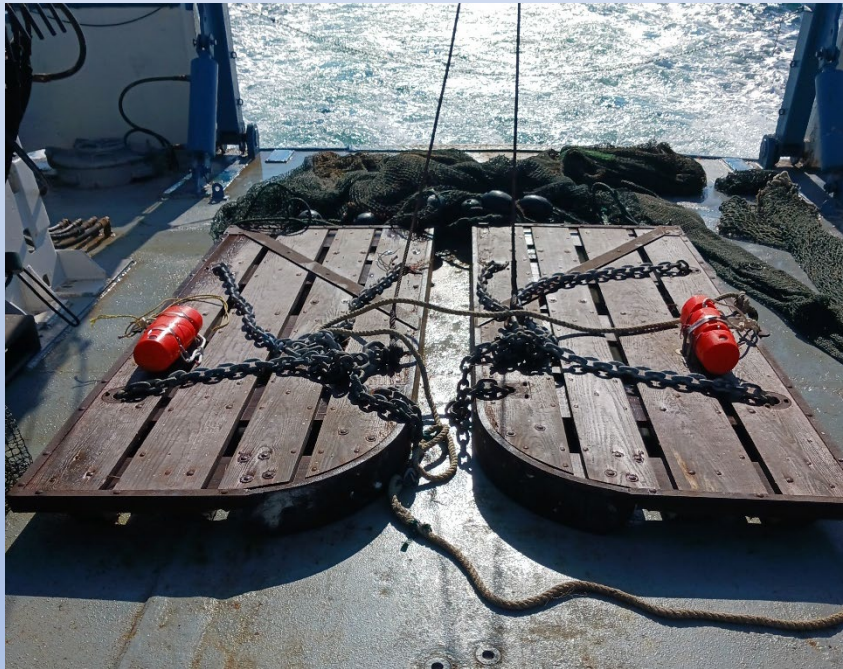
- Summer 2023 cruise
 - 93 stations (51,474 animals collected)
 - >3,500 returned for ID verification
- Numerous specimens retained:
 - 559 - age/growth
 - 712 - diet
 - 6 - genetics
 - 719 - mercury
 - 144 - external request/studies



- Fall 2023 cruise (offshore as we speak)

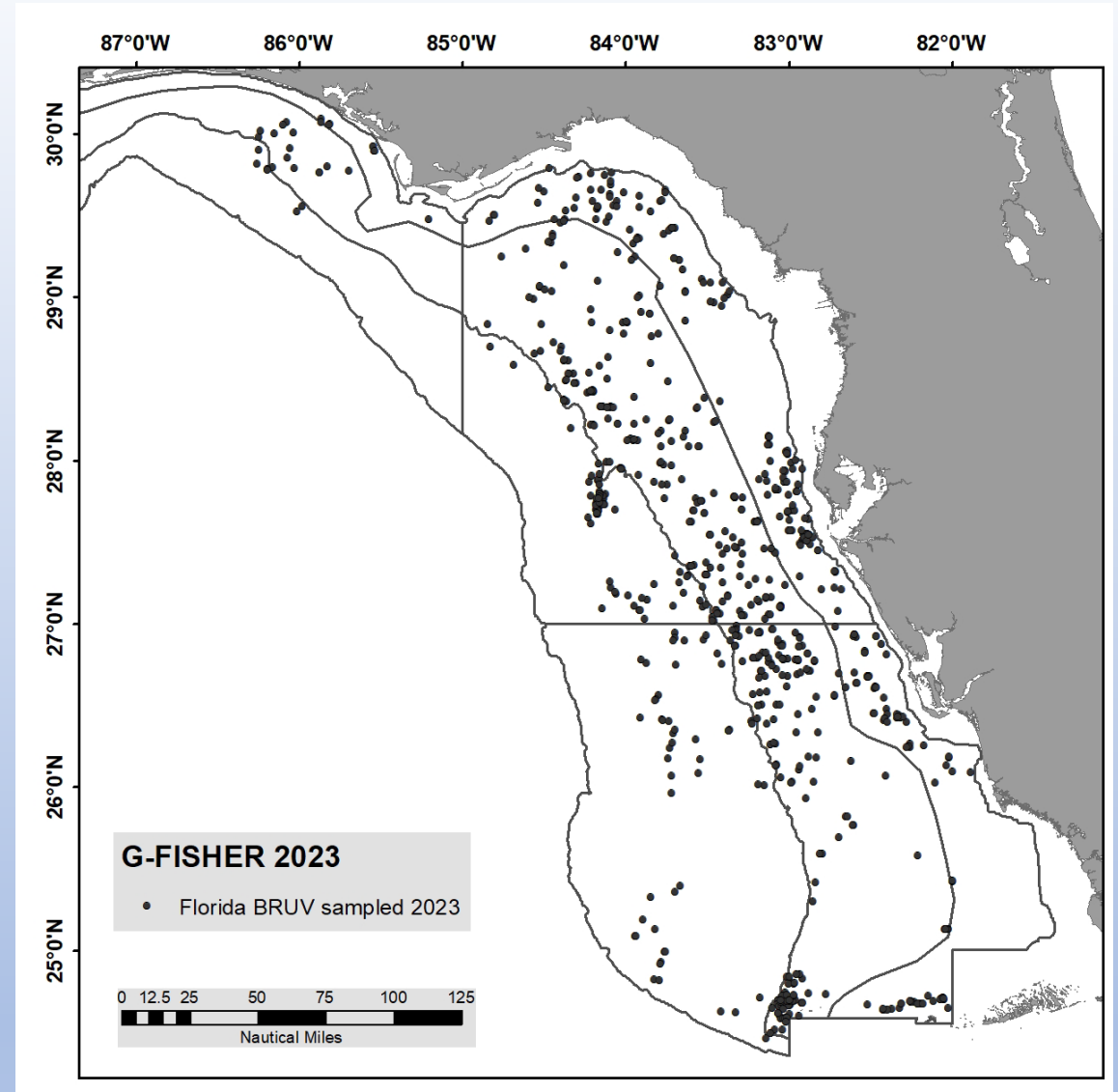
Groundfish Trawling

- Summer 2023 cruise
 - Continued use of trawl sensor on doors
 - Evaluating how data will be used



Reef Fish Survey (2023)

- S-BRUV deployments completed by State of Florida
- Cruises completed aboard multiple vessels



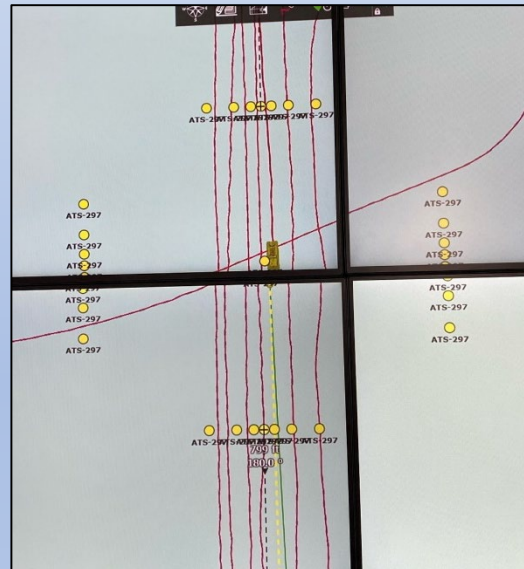
- Completed ~ 789 S-BRUV sites

Reef Fish Survey (2023)

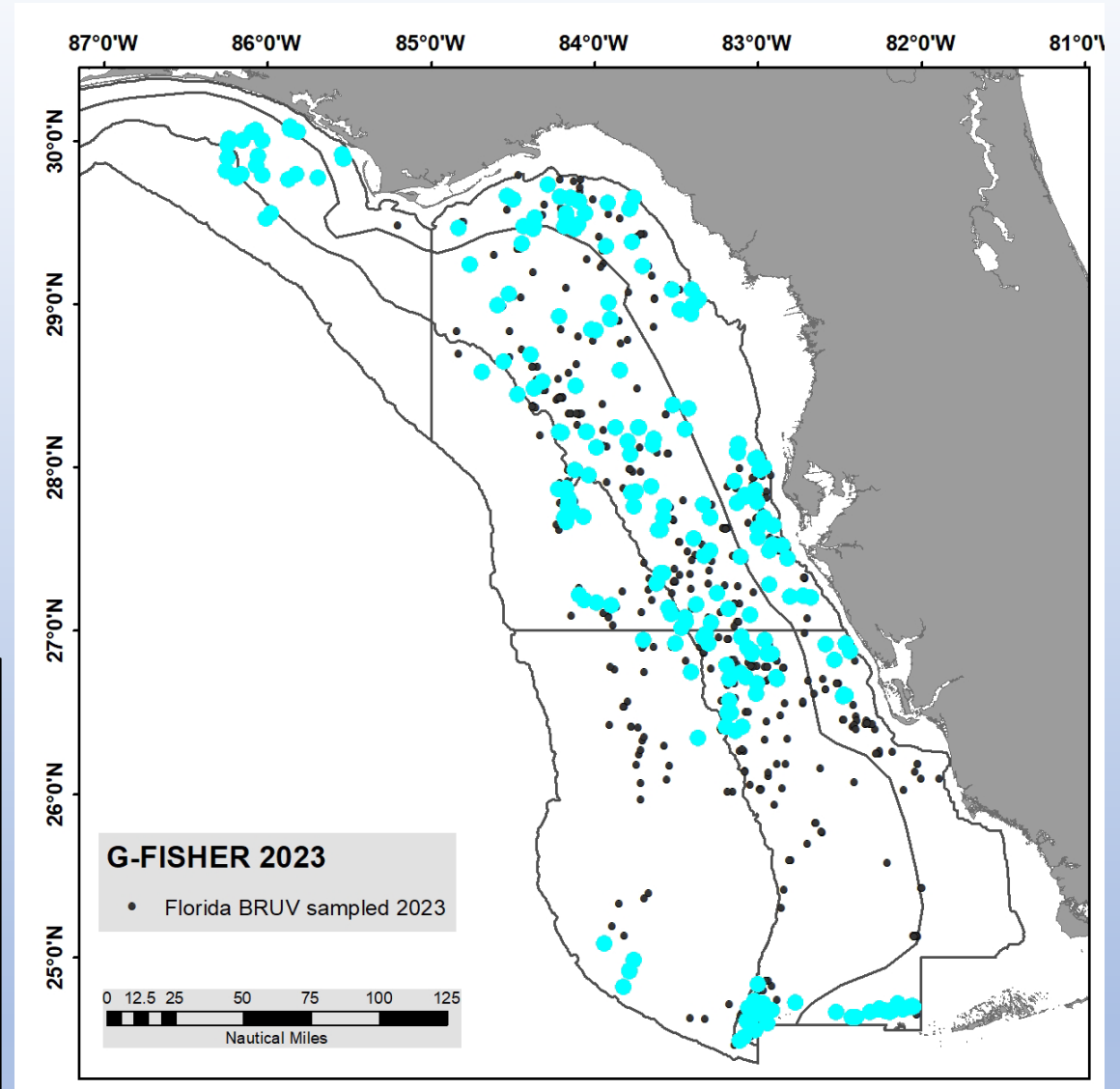
- Paired with acoustic surveys in support of GAJ project
- Acoustic survey completed while camera is soaking
 - 3 frequencies: 38, 70, 120 kHz



Echofish towed ~50' behind boat



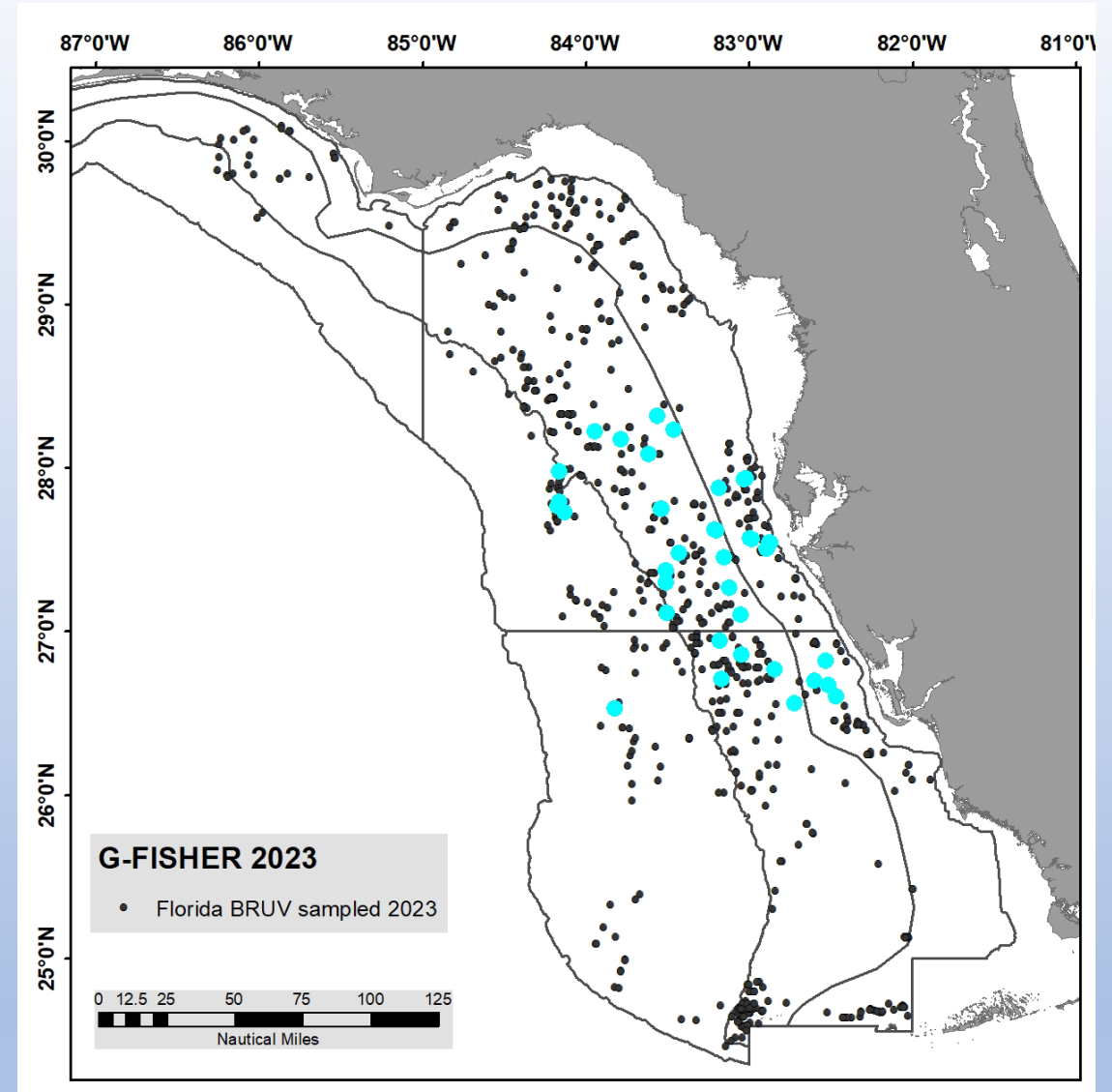
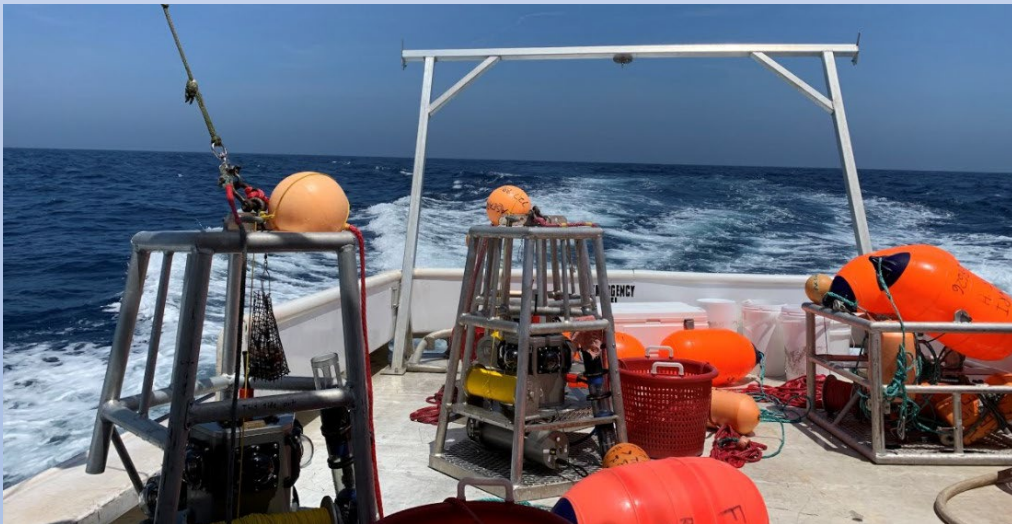
7 survey lines



- Completed ~ 257 S-BRUV sites

Reef Fish Survey (2023)

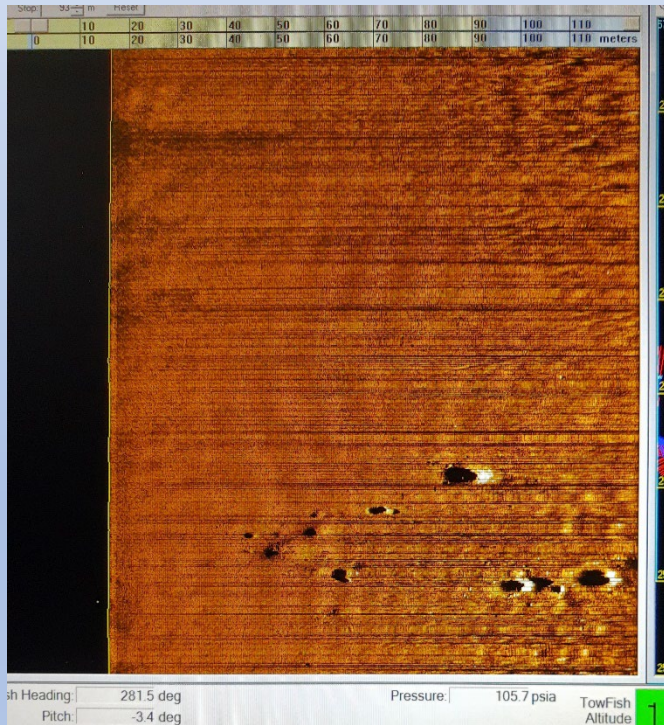
- Replicate deployments conducted to test bait effect
 - Randomized Bait-Unbait order
- These complementary to 90 sites completed in 2022



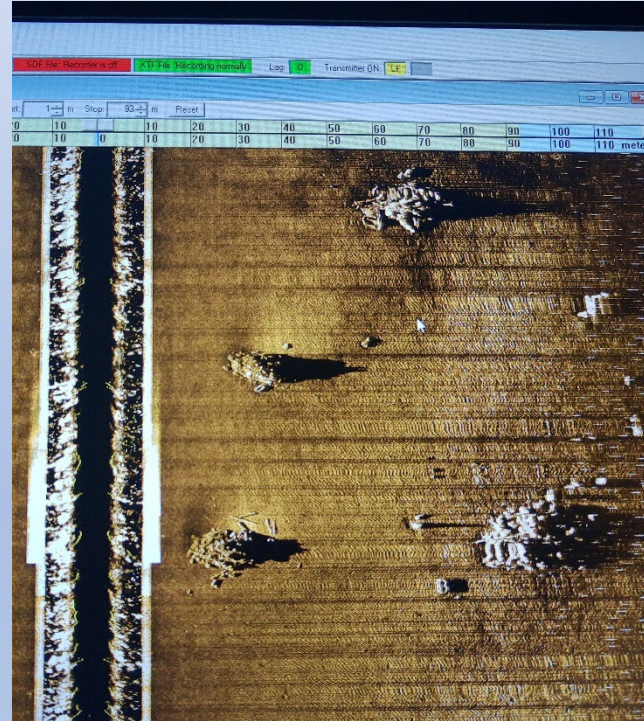
- Completed ~ 41 S-BRUV sites

2023 Survey Accomplishments – Mapping

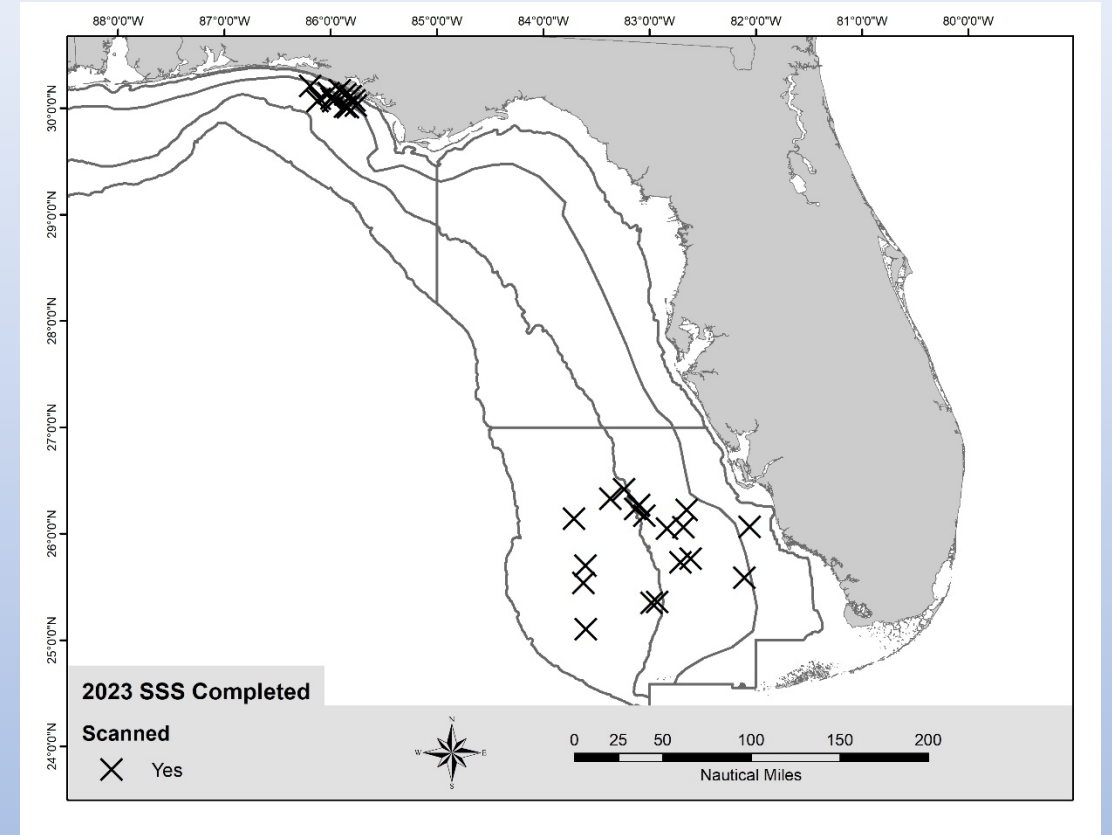
- 32 surveys completed
 - 18 randomized surveys (4nm)
 - 2 artificial reef surveys
 - 12 rescan surveys (2nm)



Potholes



Artificial Reefs



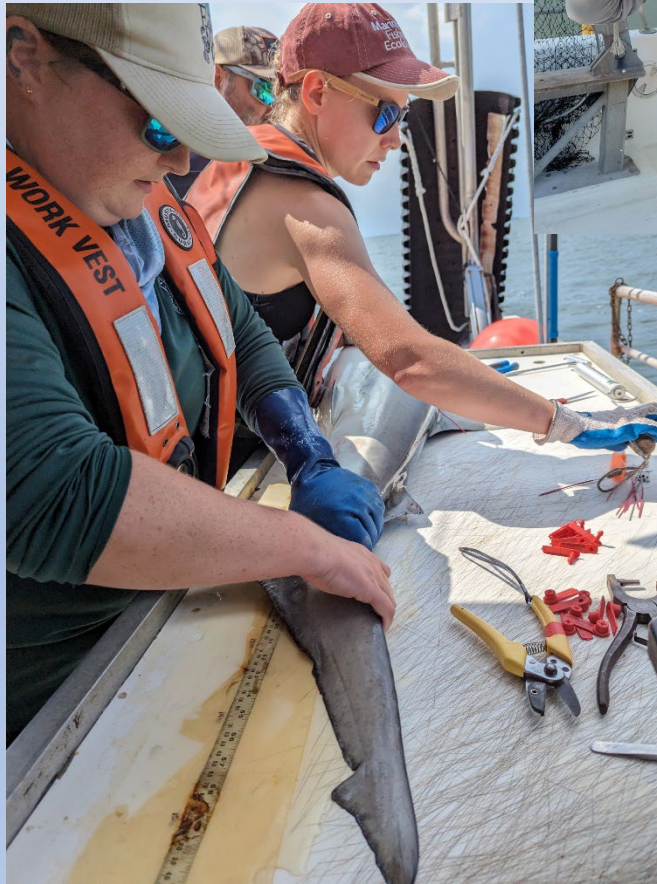
SEAMAP Bottom Longline Survey

Current activity

- Training trips conducted
 - Sept 12-13 w/MS Team (6 stations)
 - Sept 14 w/AL Team (3 stations)
- Develop Data Structure/Mgt
- Ordering gear/supplies

Florida sampling plans

- Spring 2024
- Stat Zones 3 – 9
- ~ 45-50 stations per season



Archiving Center

- Fall 2022 cruise resulted in 560 specimens examined and archived
- Summer 2023 cruise generated 461 specimens for archives
- >300 boxes of ichthyoplankton received
- Updates completed on picture guides for invertebrates



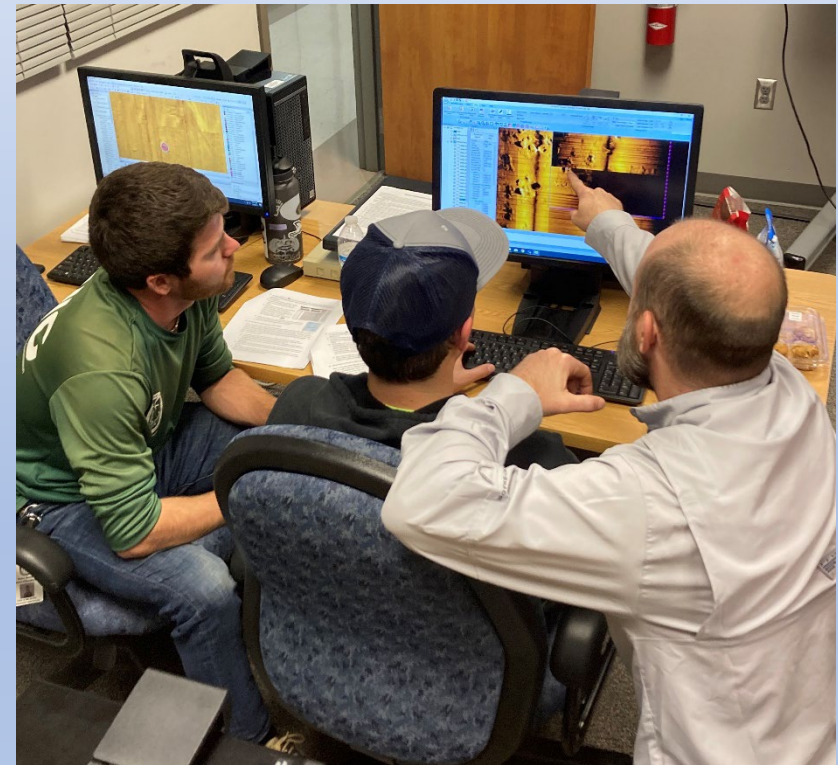
Archiving Center

- Invertebrate training workshop held in St. Pete at FWRI lab during April 2023



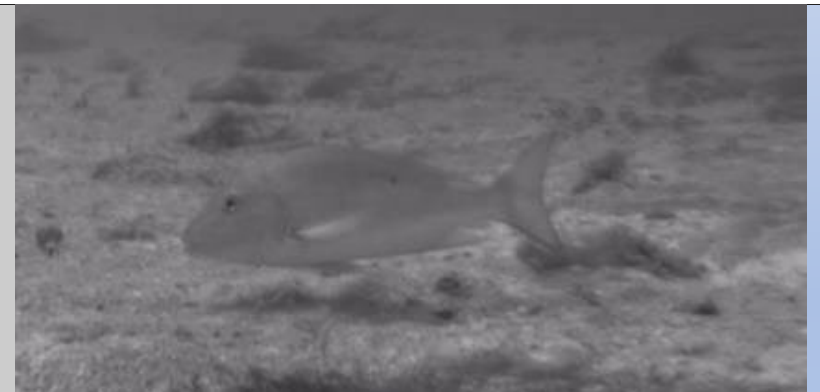
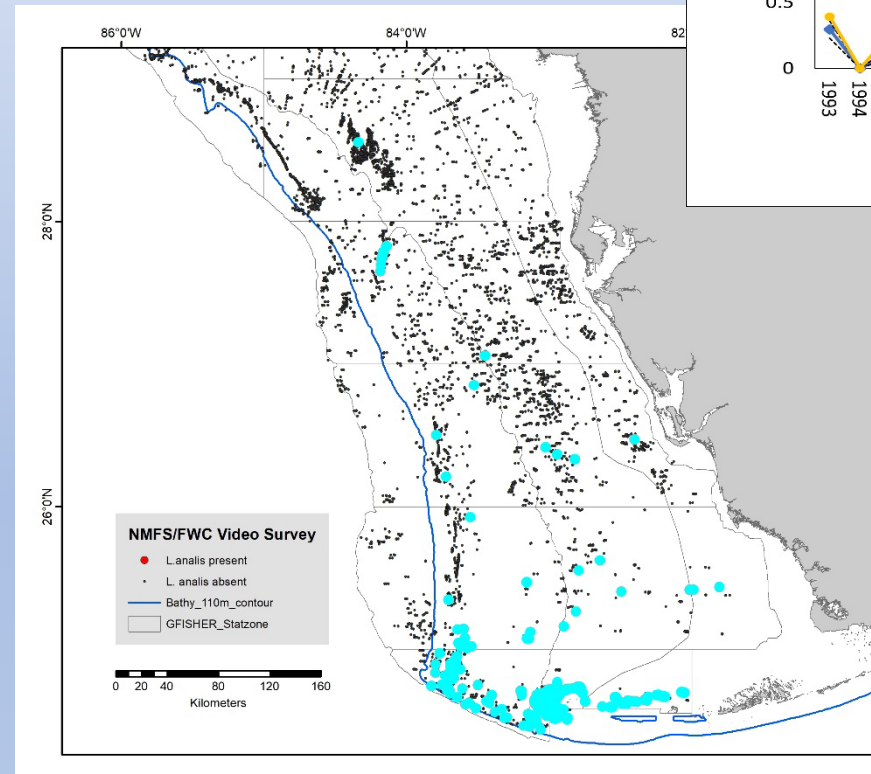
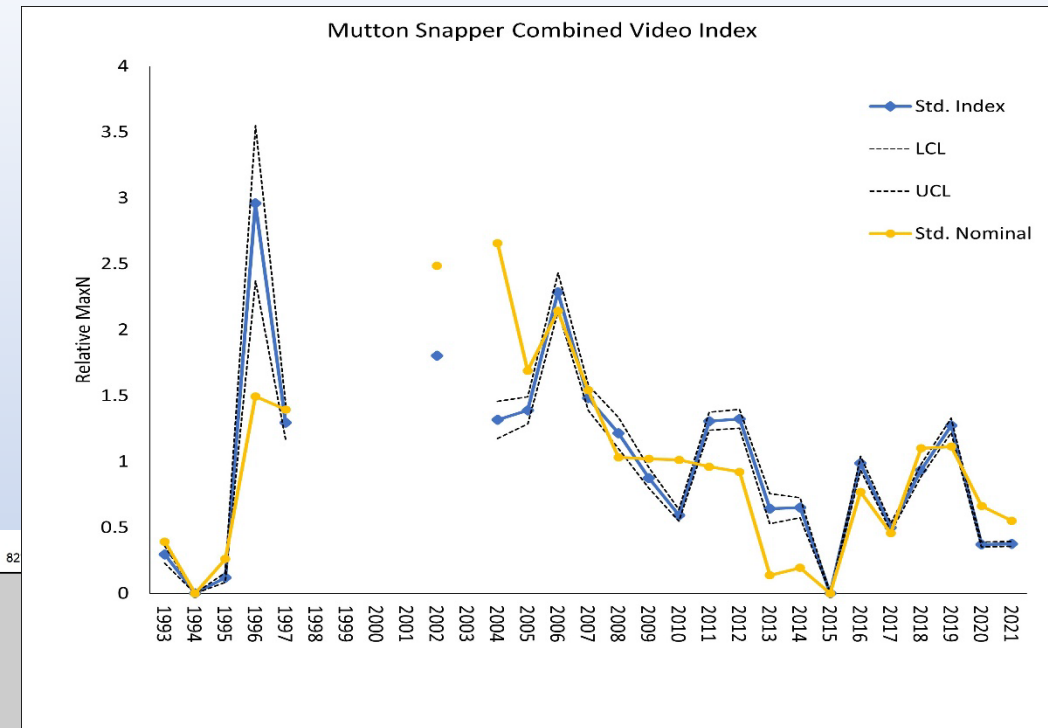
Data Processing

- 2022 video – 90% complete
- Habitat mapping data – 2022 data progressing (4 new readers trained)
- FWRI RIC staff assisting development of archive center cataloging app



SEDAR Data Contributions

- SEDAR 79 (Mutton Snapper)
- Interim analyses for Gag and Vermilion Snapper
- Continued work on SEDAR Best Practices Workshop 8



Data Management

- Continued process of developing common video reading annotation database structure:
 - Goal – approved structure to GSMFC database manager by the end of the year
 - Video and SSS SOPs also by end of the year
 - Aim for Gulf reef fish survey workshop sometime in spring

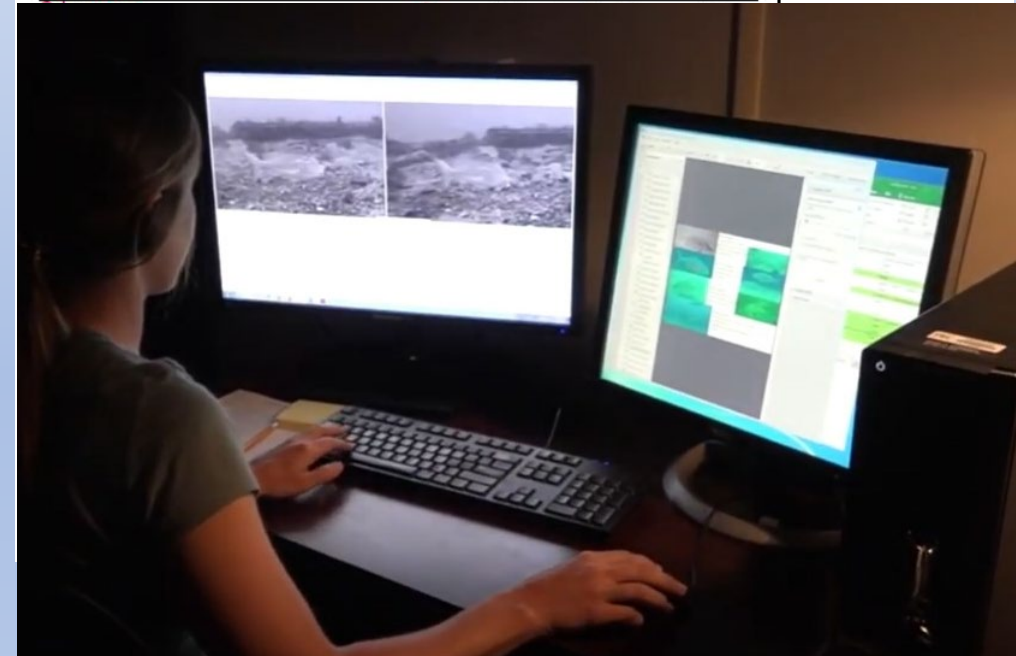
REEF VIDEO PHYSICAL REPORT FOR FIELD NO: 2020_BBO-114 Camera: AO6 Habitat Only? No

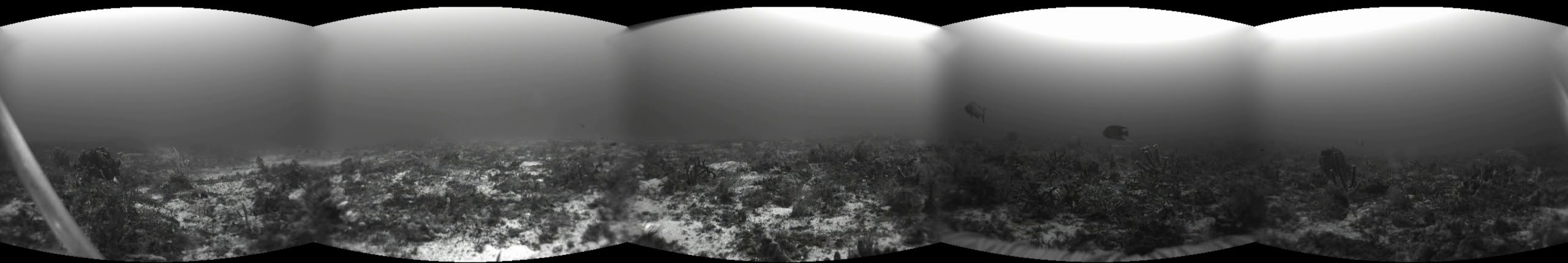
Operation Code	Reader	Read Date	Start Time	End Time	Habitat Only?	
AA ✓	Brian Kilmek	03-09-2021	09:59 ✓	29:59	No	✓
Current 1	Current Relative	Relative Visibility	Percent Horizon Visible	Substrate Max Relief	Blota Max Relief	Combo Max Relief
Current 2	D ✓	3 ✓	6 ✓	4.5 1.0	0.3 ✓	4.6 1.1
		Structural Complexity	Blota Complexity	Habitat Complexity		
		3 ✓	2 3	6 6		
Substrate Type	% Comp	Blota Type	% Comp.	Blota % Cover	Gen. Habitat Category	
R ✓	5	AM	9 7	4 6	FB ✓	
S	5	SV CG	1 2			

Notes/Comments: GM 20 09 018 pod lands at 2:09 Entered by Shea Husband
remove spaces

REEF VIDEO BIOLOGY REPORT FOR FIELD NO: 2020_BBO-114 Camera: AO6

Taxon	Phase	Use	Measure	T.O.C	N	ID1	ID2	ID3	Fish Health	Final ID	Changed in DB
Halichoeres spp.				✓ 09:59	3	BE	ST		False		
				✓ 10:21	3				False		
				14:09	9 5				False		
Pomacentridae spp.				10:02	4 1	HO	MS		False		
				✓ 10:45	3				False		
			too far away	13:00	2				False		





Questions?