

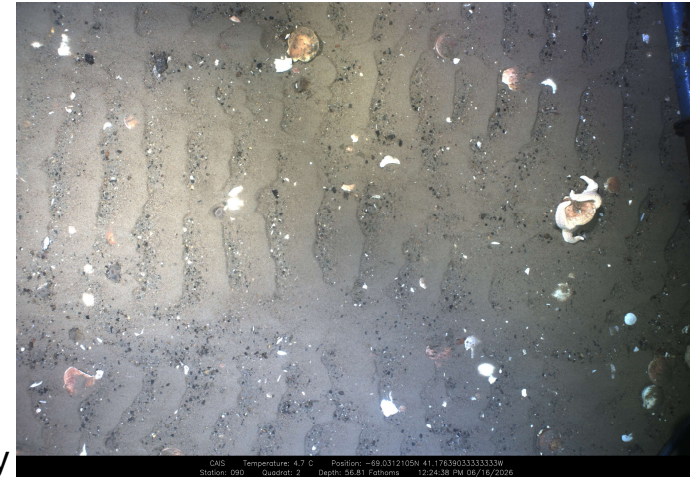
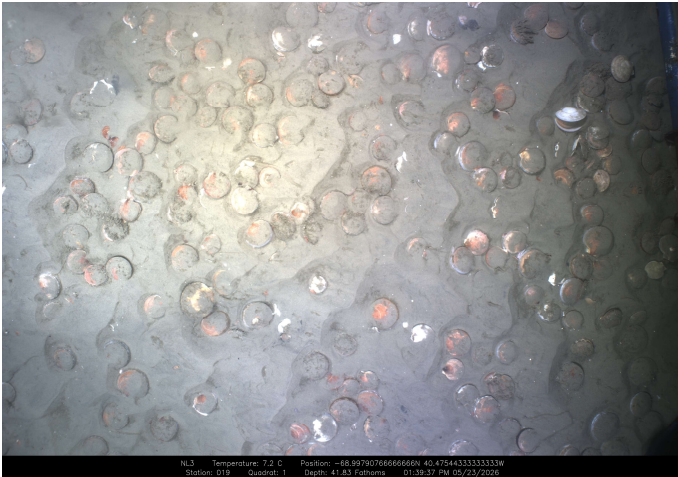
SMAST Georges Bank Survey Results 2026

Adam Delargy and Kevin Stokesbury

Scallop PDT Meeting



Department of Fisheries Oceanography
School for Marine Science and Technology
University of Massachusetts Dartmouth

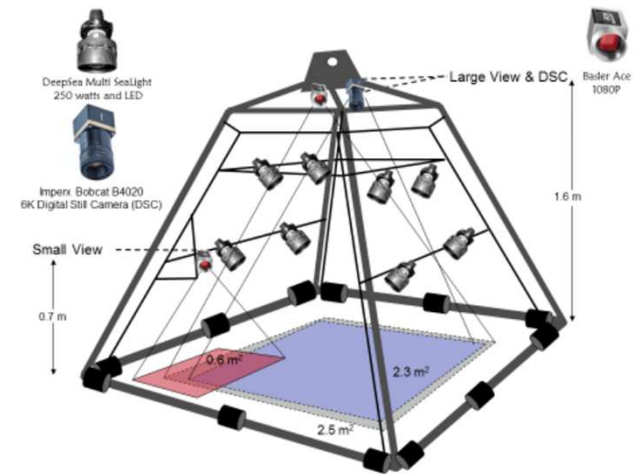


Drop camera pyramid



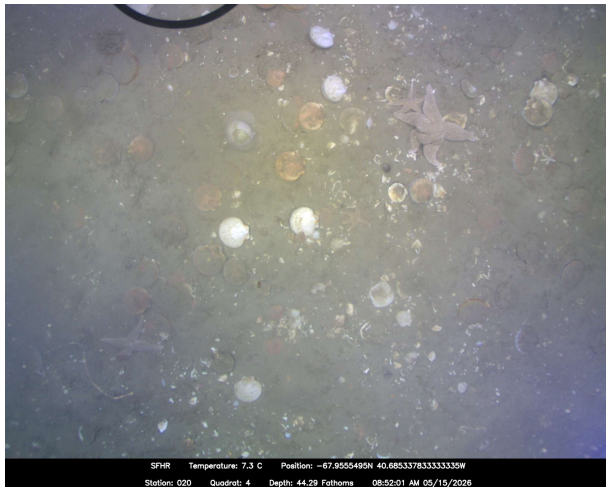
Large camera (2.5 m²)

Side camera (0.6 m²)

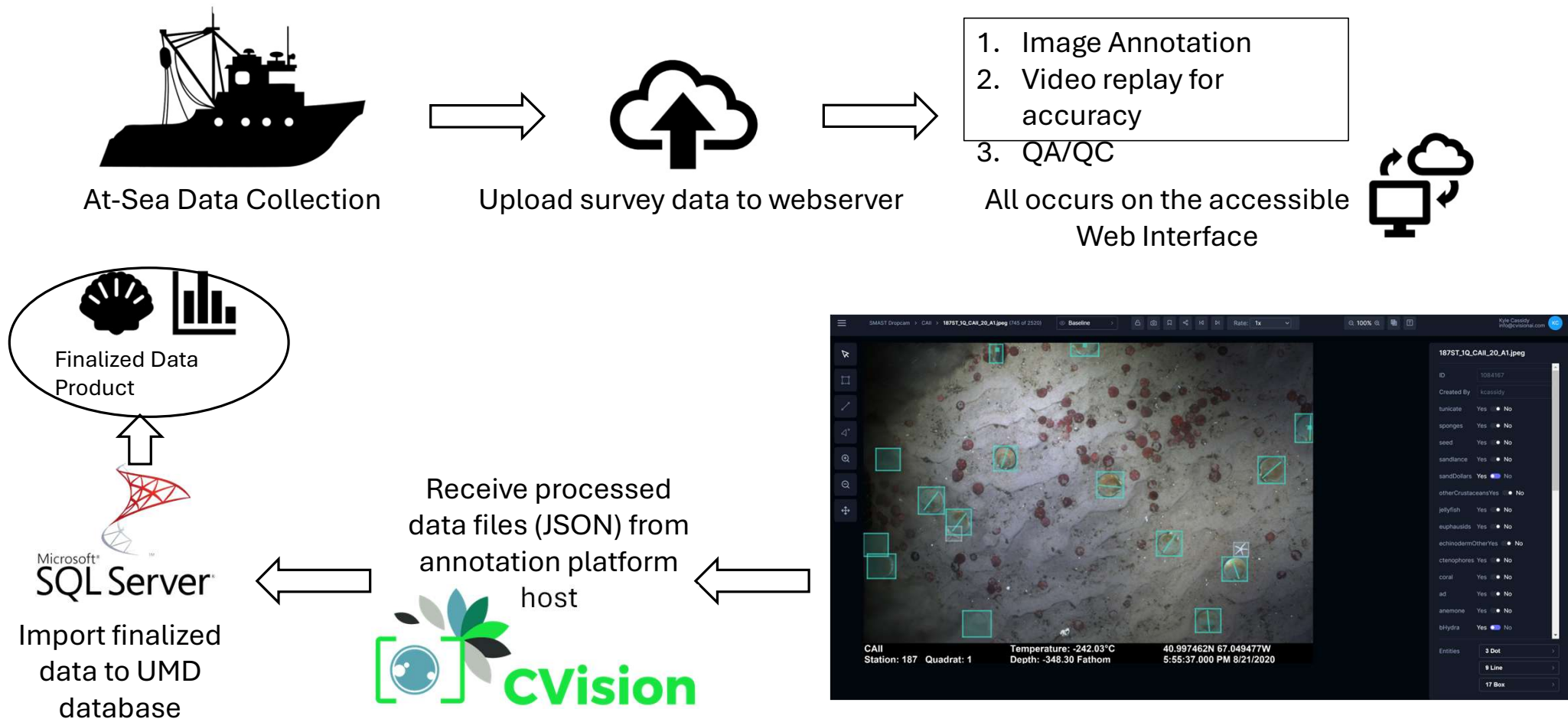


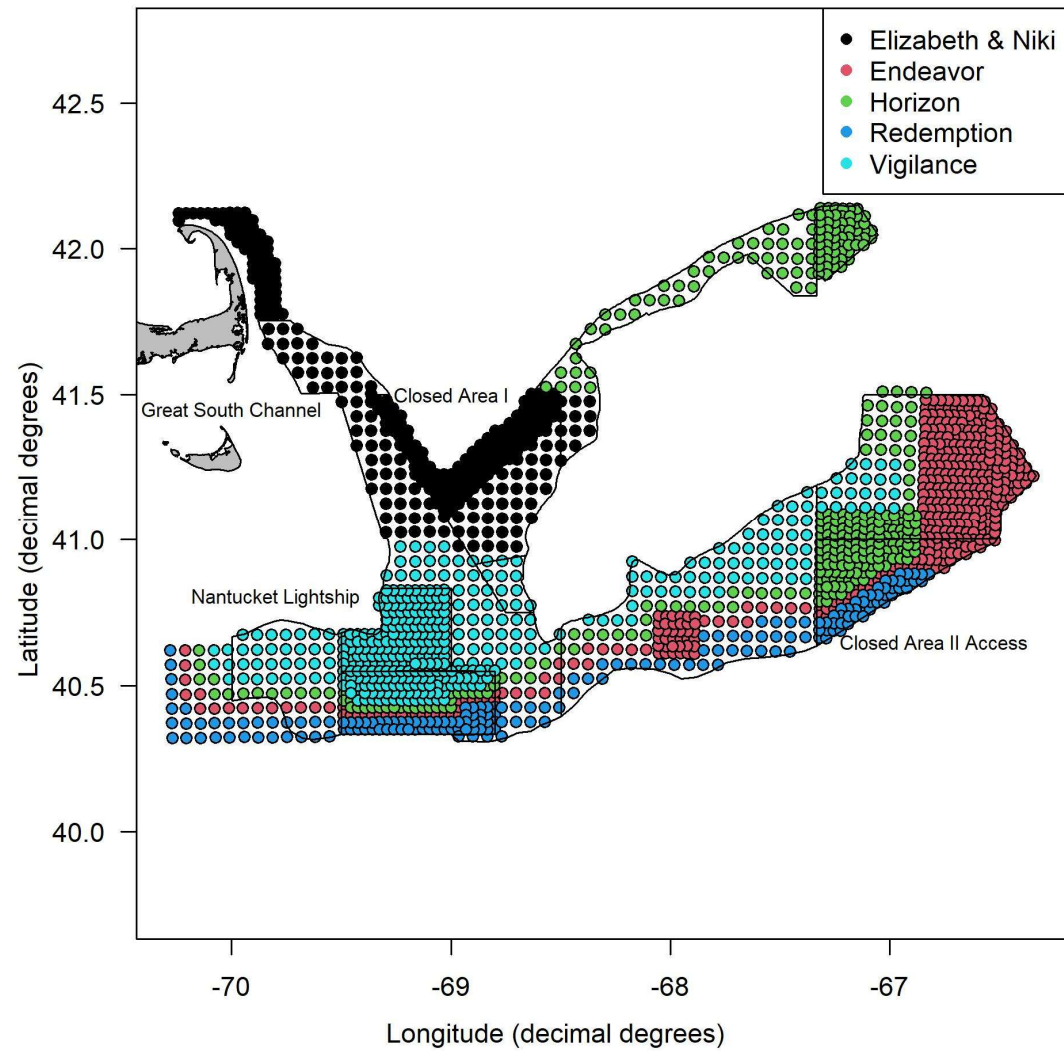
Bethoney and Stokesbury (2018)

Digital still camera (2.3 m²)



Data Collection





Shell height meat weight equations: Georges Bank

Georges Bank PDT 2025

$$W = \exp(-4.4662 + 2.8935 \cdot \ln(\text{shell height}) - 0.1325 \cdot \text{latitude} - 0.007067 \cdot \text{depth} + \text{SAMS_Effect})$$

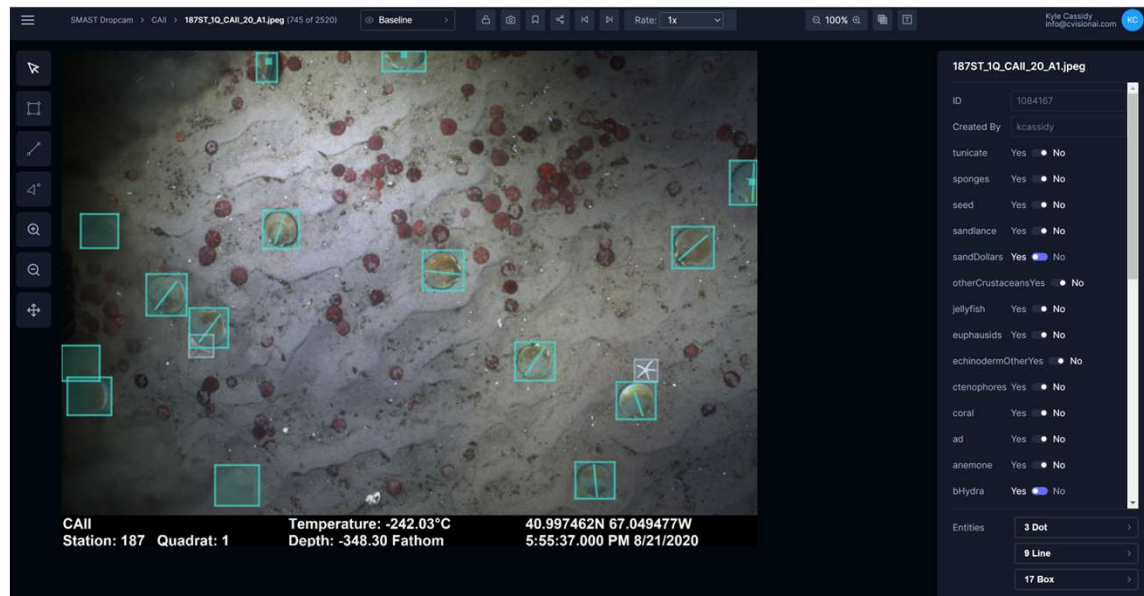
NLS-South

$$W = \exp(-11.5736 + 3.10913 \cdot \ln(\text{shell height}))$$

$$W = \exp(-11.67316 + 3.12674 \cdot \ln(\text{shell height}))$$

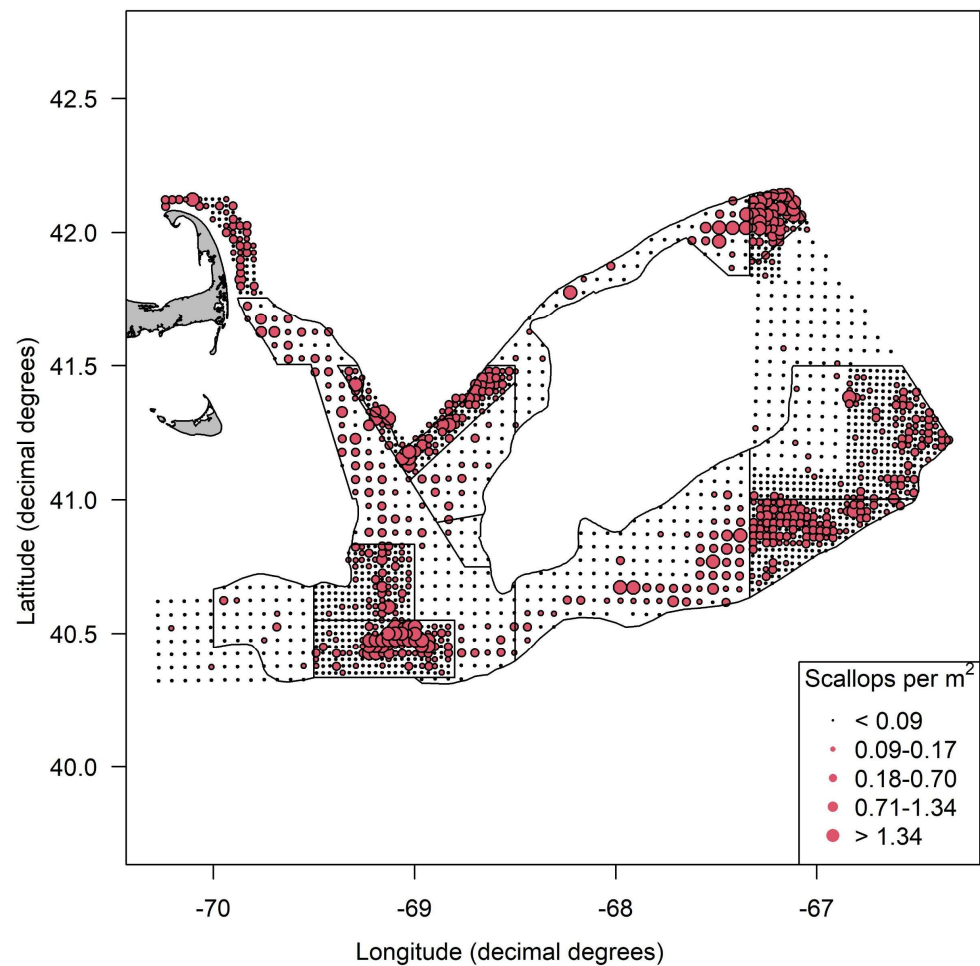
VIMS 2025 only eq

VIMS 2025-2026 eq

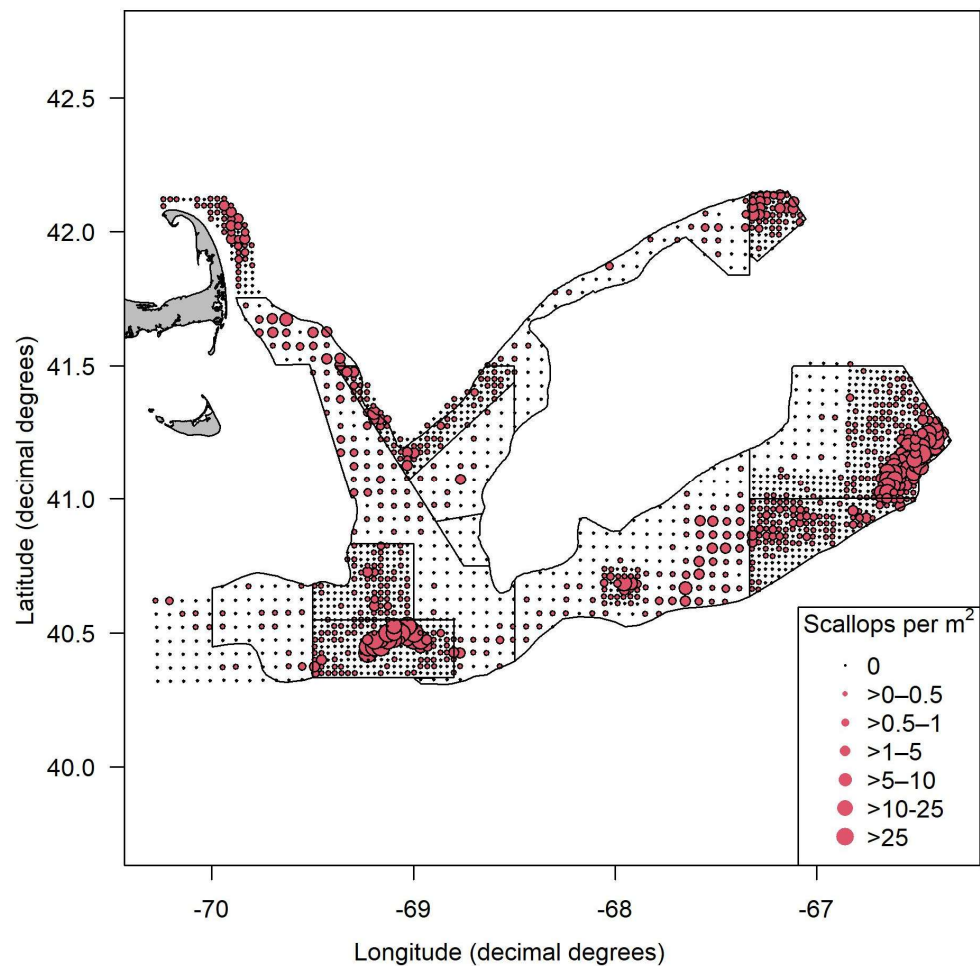


	Abundance (millions)			Biomass (metric tons)			Exploitable Biomass (metric tons)		
	2025	2026	Percent Difference (%)	2025	2026	Percent Difference (%)	2025	2026	Percent Difference (%)
CL1-Access	30.9	58.7	90	790	1131	43	346	531	54
CL1-Sliver	411.5	137.1	-67	6213	1634	-74	2718	586	-78
CL1-South	0.0	0.0	-	0	0	-	0	0	-
CL2-South	92.1	359.8	290	1948	1525	-22	941	496	-47
CL2-Ext	165.6	114.9	-31	1953	1337	-32	666	503	-24
CL2-North	199.3	164.9	-17	5268	4217	-20	3027	2405	-21
Great South Channel	210.8	340.1	61	2889	3070	6	1142	1298	14
NLS-North	52.8	58.3	10	1107	1210	9	507	650	28
NLS-South	7863.7	4805.9	-39	28271	32550	15	3875	7000	81
NLS-West	34.6	9.5	-73	727	32	-96	284	3	-99
Northern Flank	138.6	80.6	-42	2148	958	-55	896	364	-59
Southern Flank	964.3	724.1	-25	5629	7512	33	973	2457	153
NLS West Extension	2.9	0.0	-Inf	38	0	-Inf	10	0	-Inf
North Outer Cape Cod	14.6	7.2	-51	422	137	-67	266	88	-67
Sliver Extension	43.7	8.8	-80	737	177	-76	388	99	-75
South Outer Cape Cod	10.2	12.9	27	176	88	-50	74	35	-53

2025

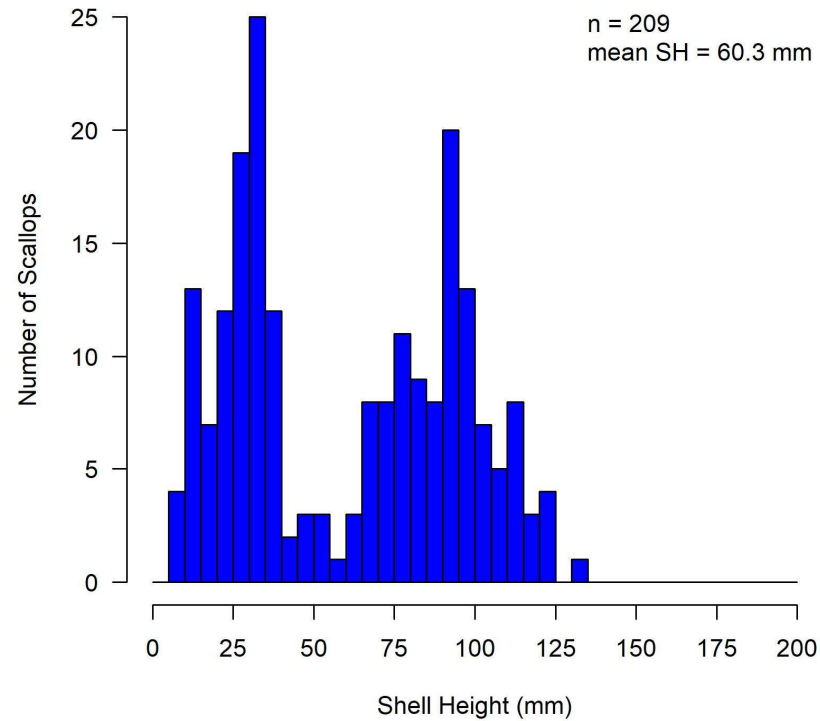


2026

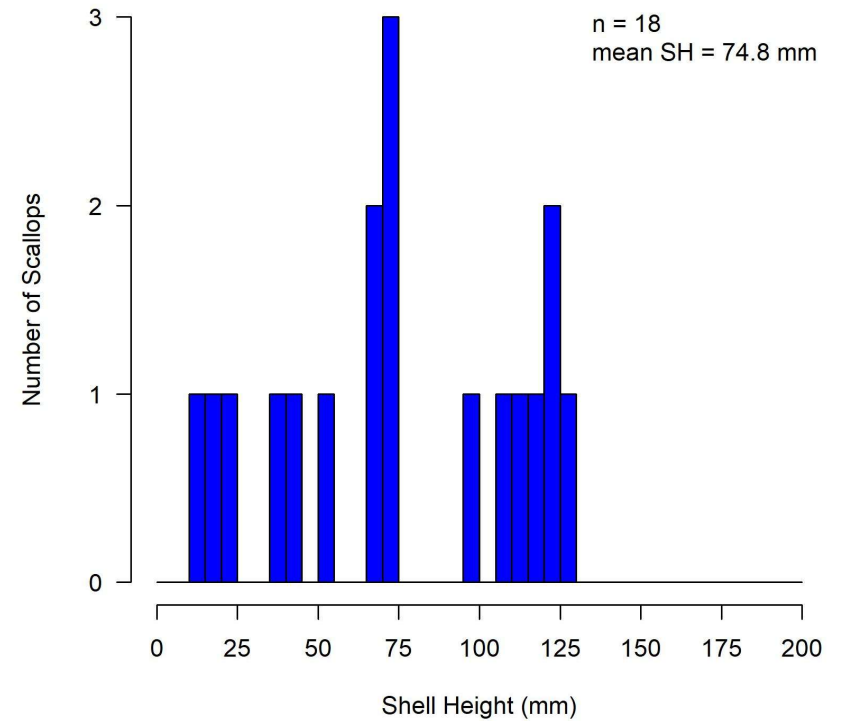


Closed Area I

CL1-Sliver

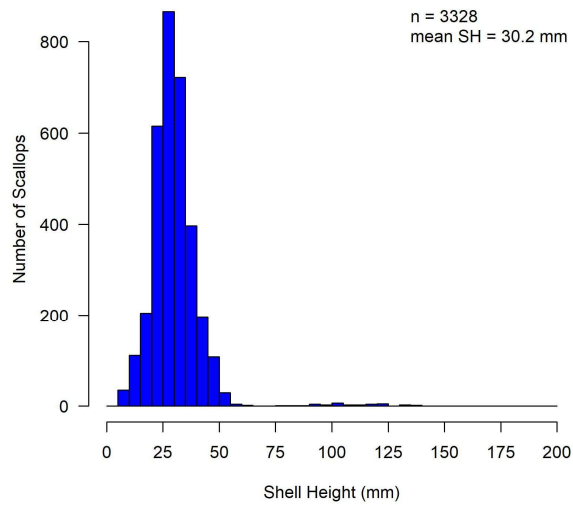


CL1-Access

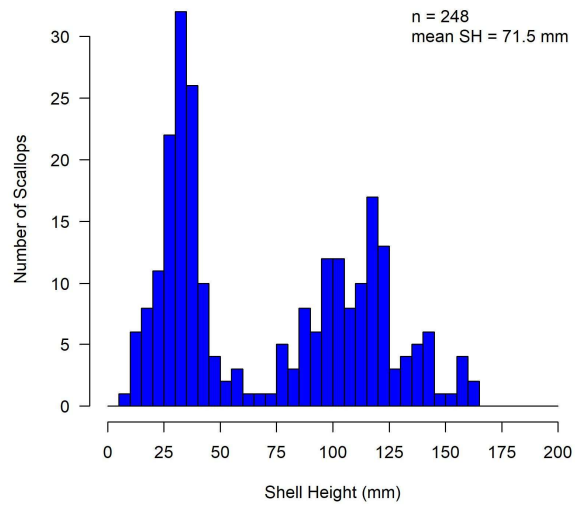


Closed Area II

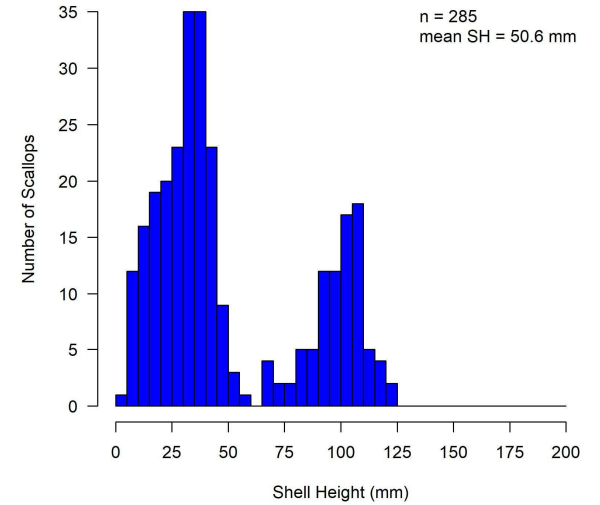
CL2-Access



CL2-North



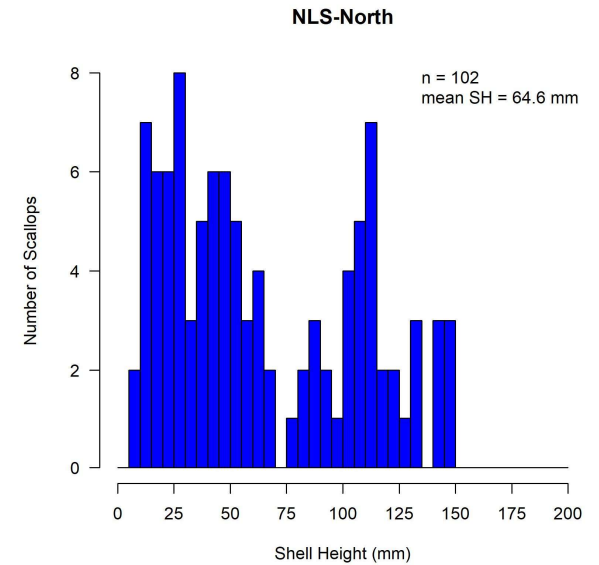
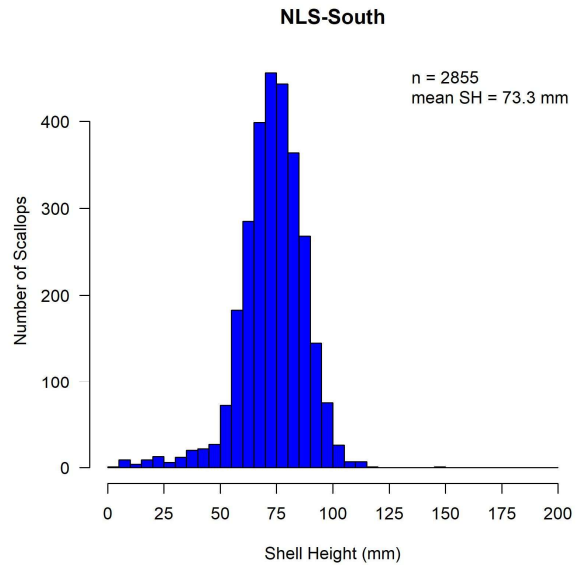
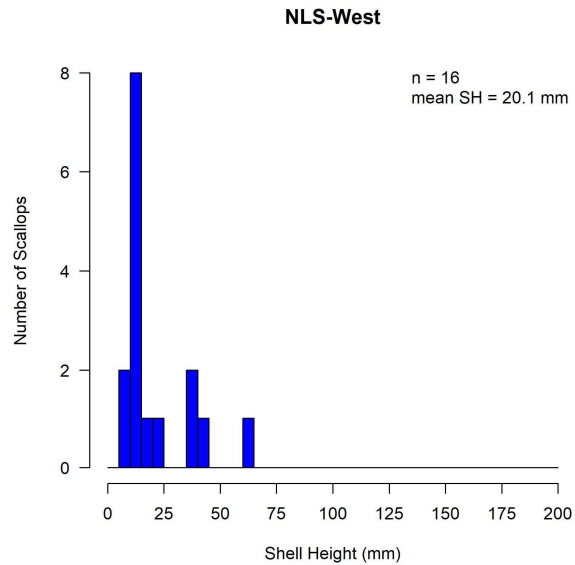
CL2-Ext

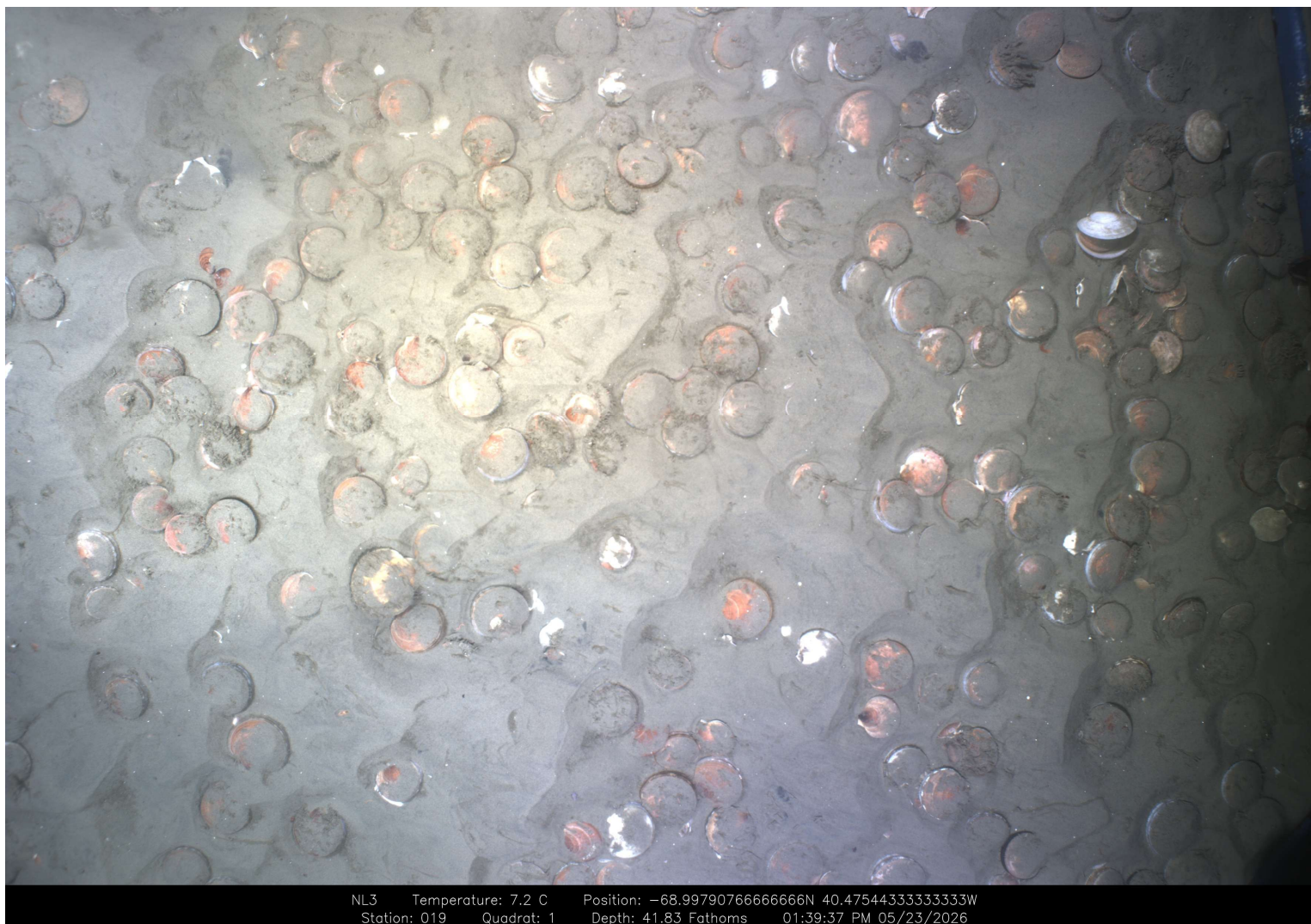




CAI2 Temperature: 6.4 C Position: -66.44714683333333N 41.1987975W
Station: 047 Quadrat: 2 Depth: 49.87 Fathoms 11:05:13 AM 05/16/2026

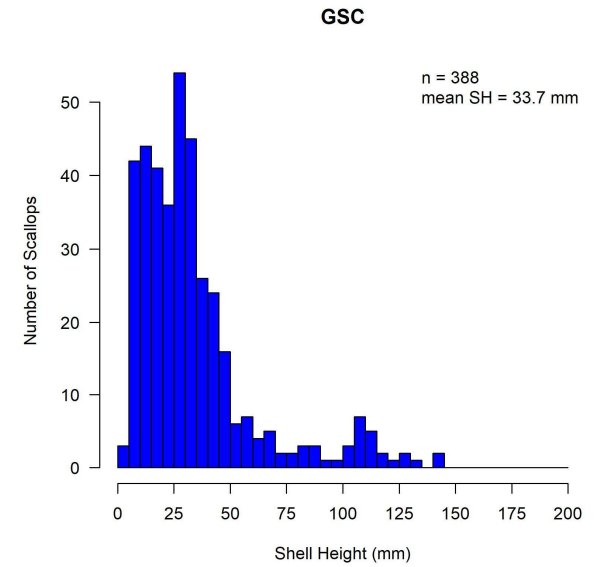
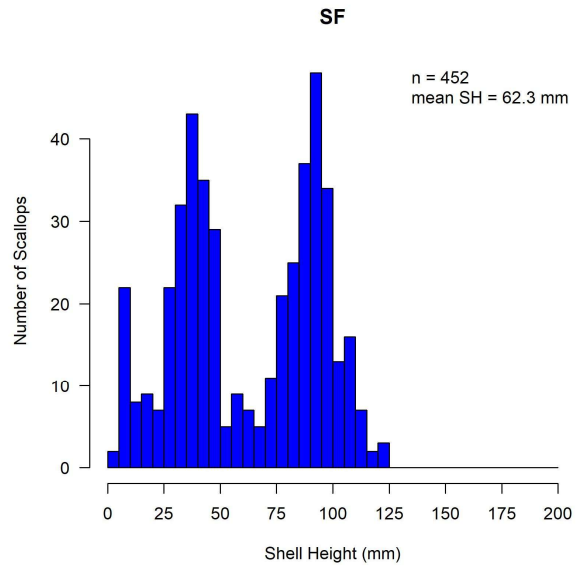
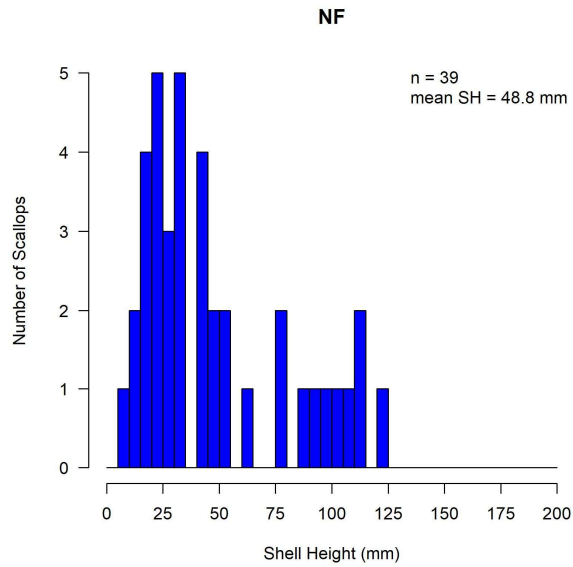
Nantucket Lightship



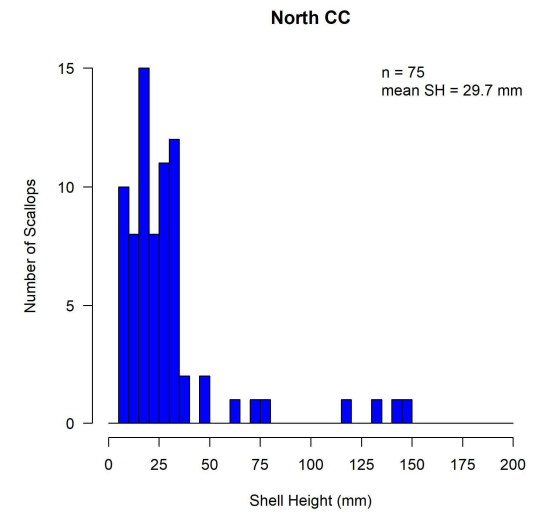
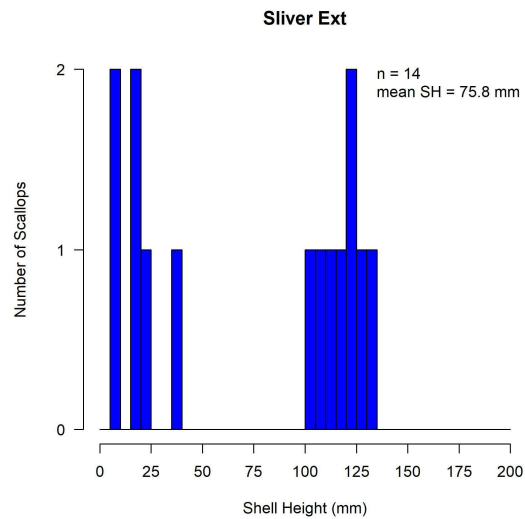
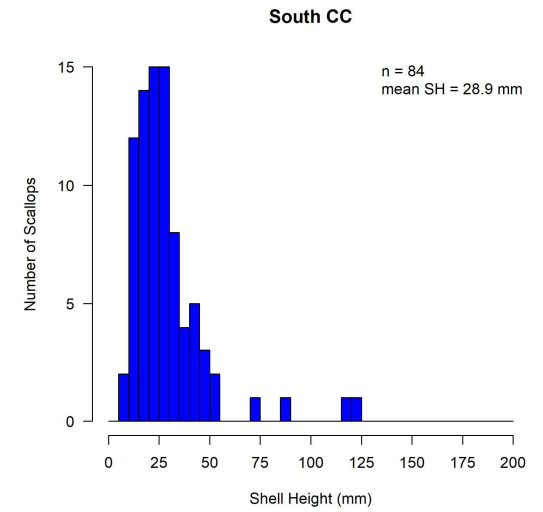
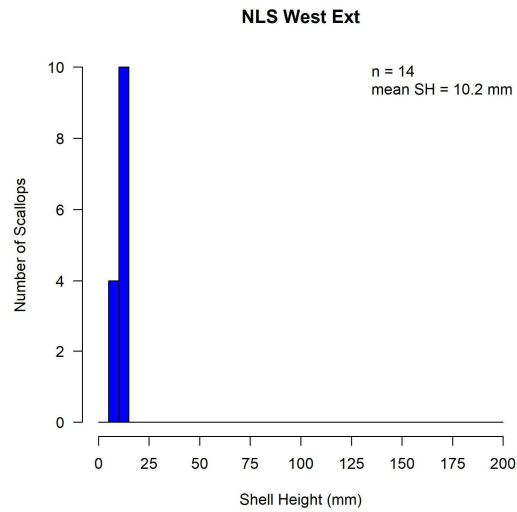


NL3 Temperature: 7.2 C Position: -68.99790766666666N 40.47544333333333W
Station: 019 Quadrat: 1 Depth: 41.83 Fathoms 01:39:37 PM 05/23/2026

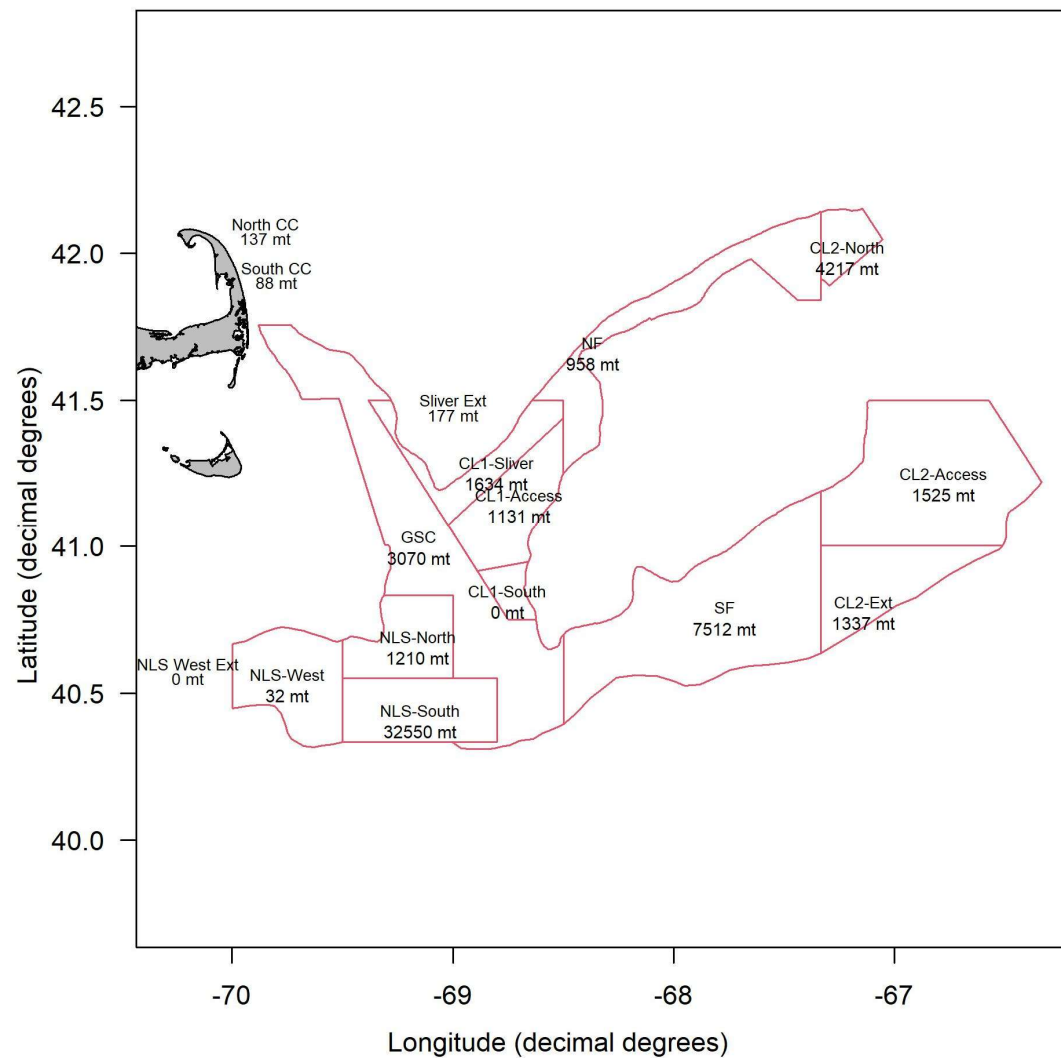
Northern and Southern flanks and Great South Channel



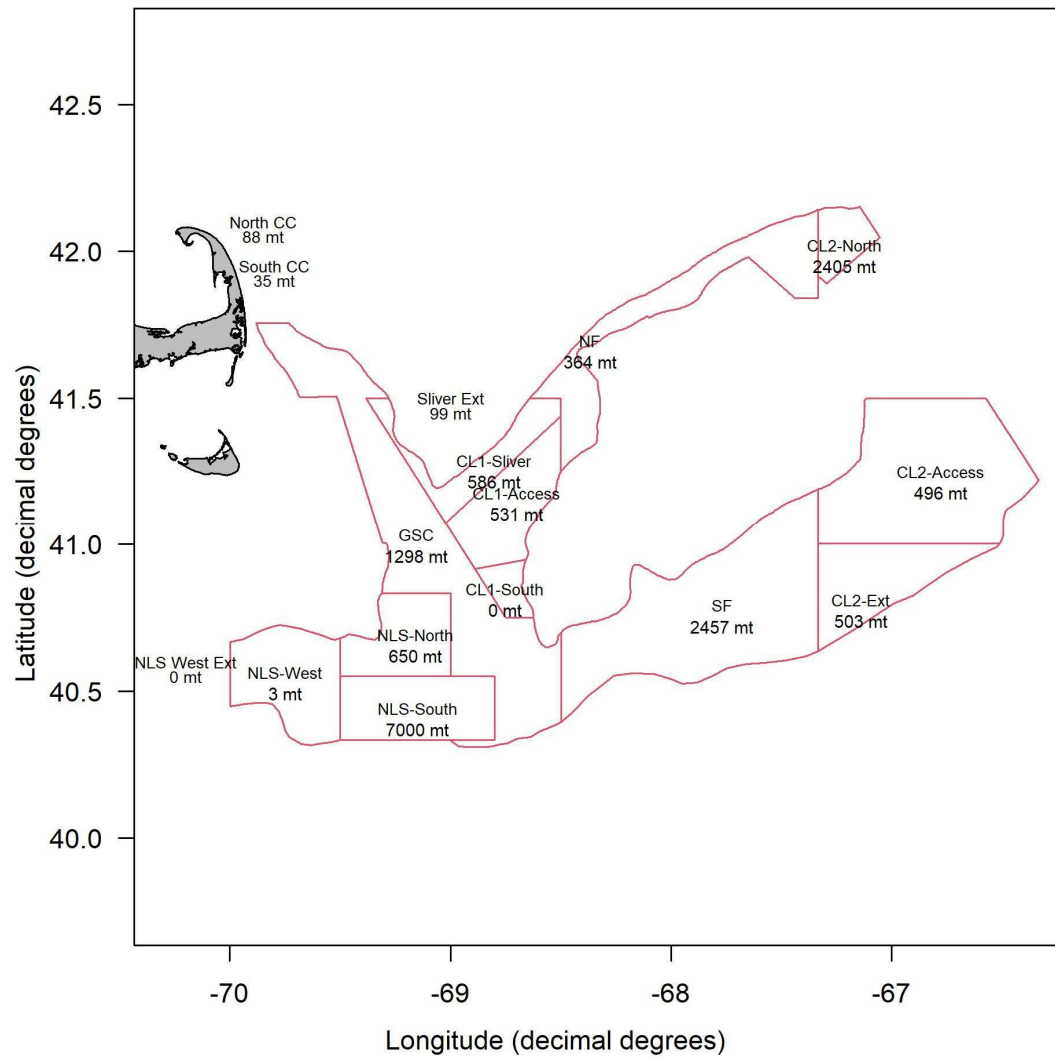
Non-SAMS areas



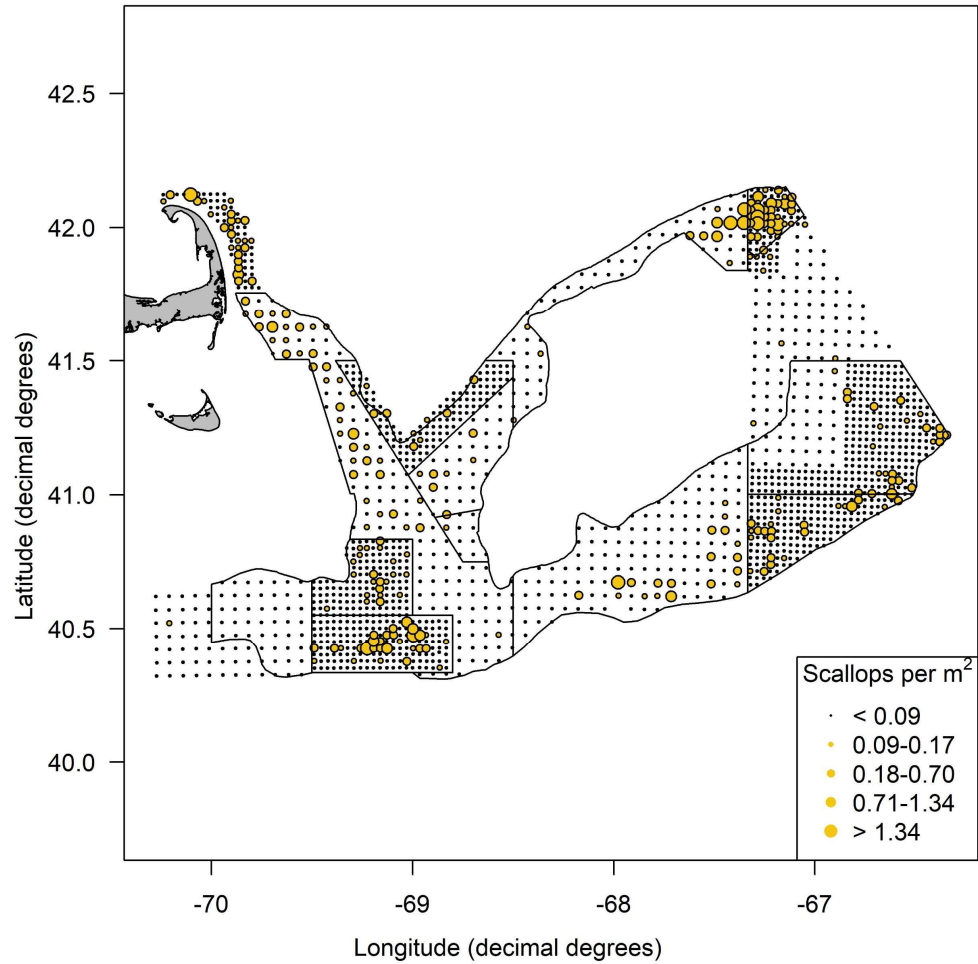
Biomass
estimates ($\geq$
40 mm shell
height) in
metric tons



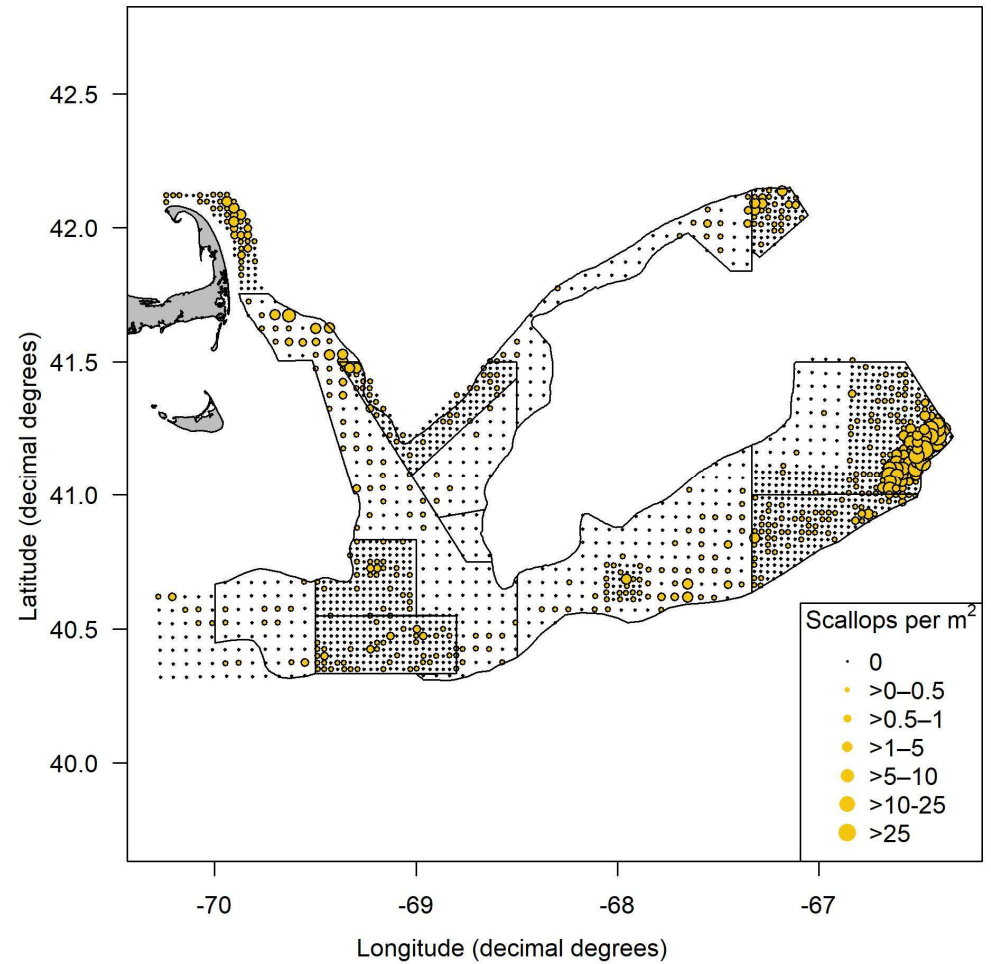
Exploitable
biomass
estimates in
metric tons



2025

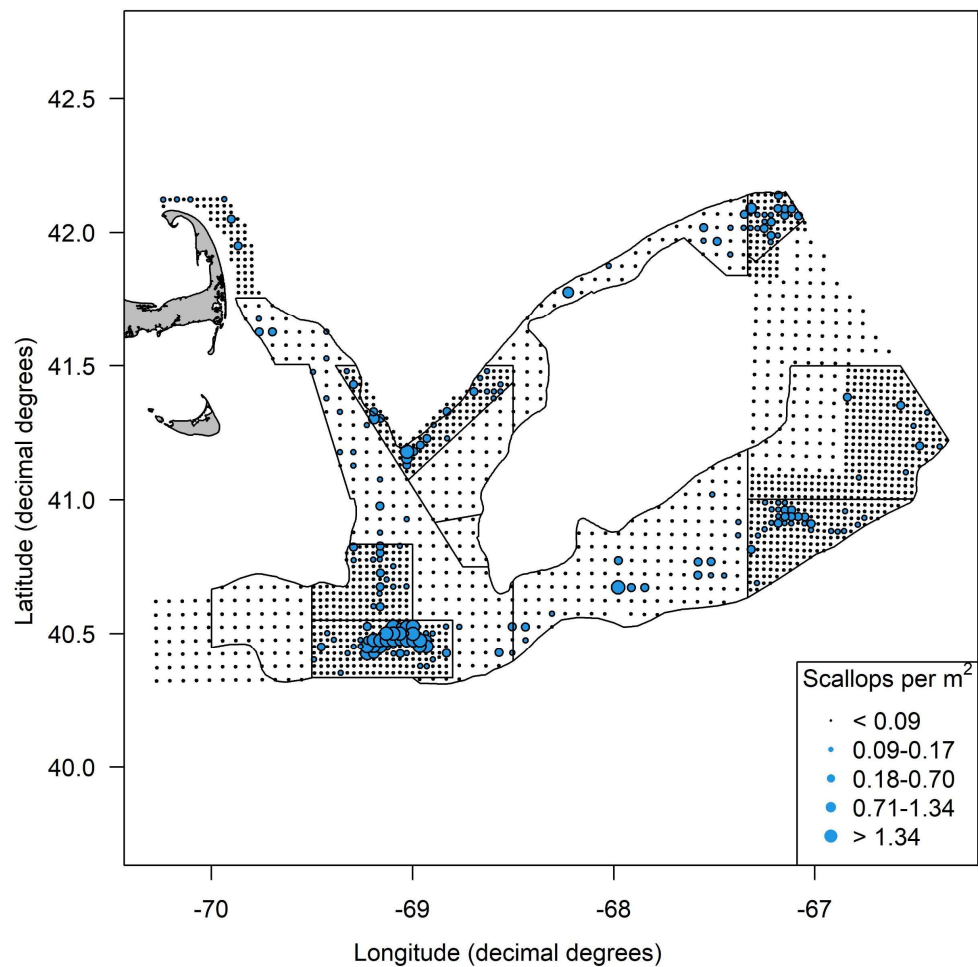


2026

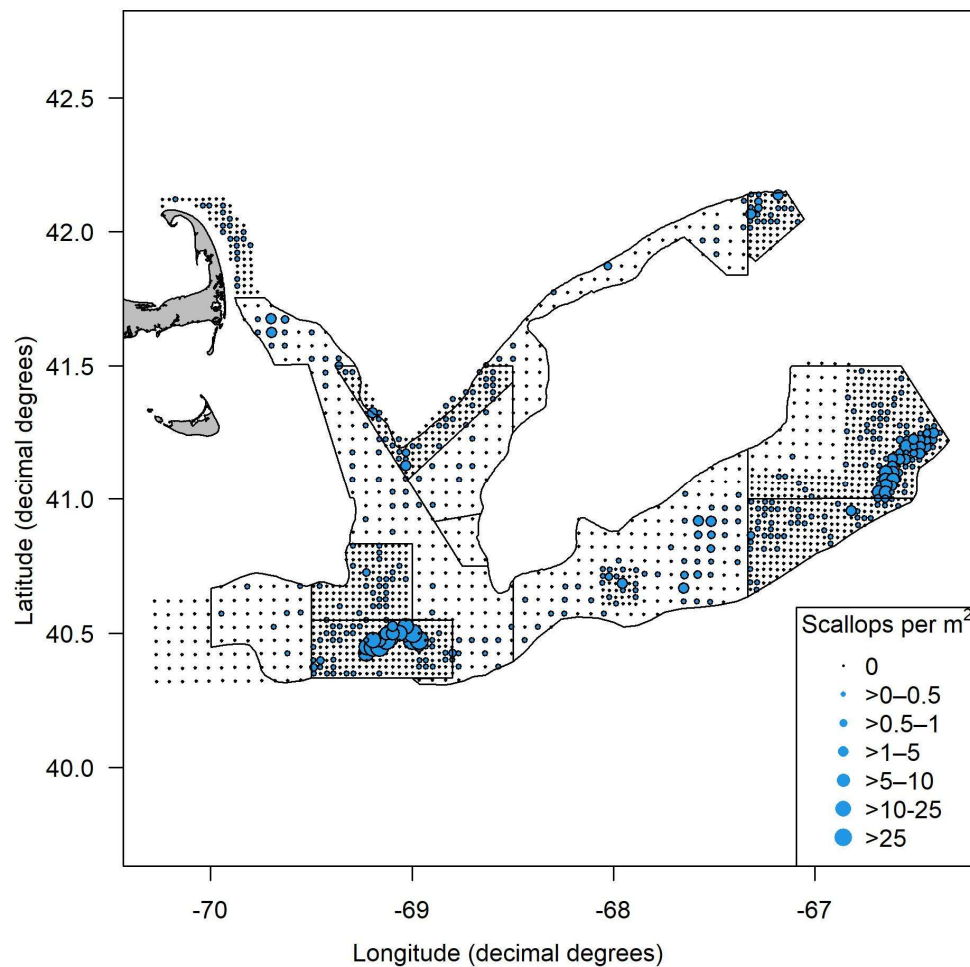


Pre-recruits (< 35 mm shell height)

2025

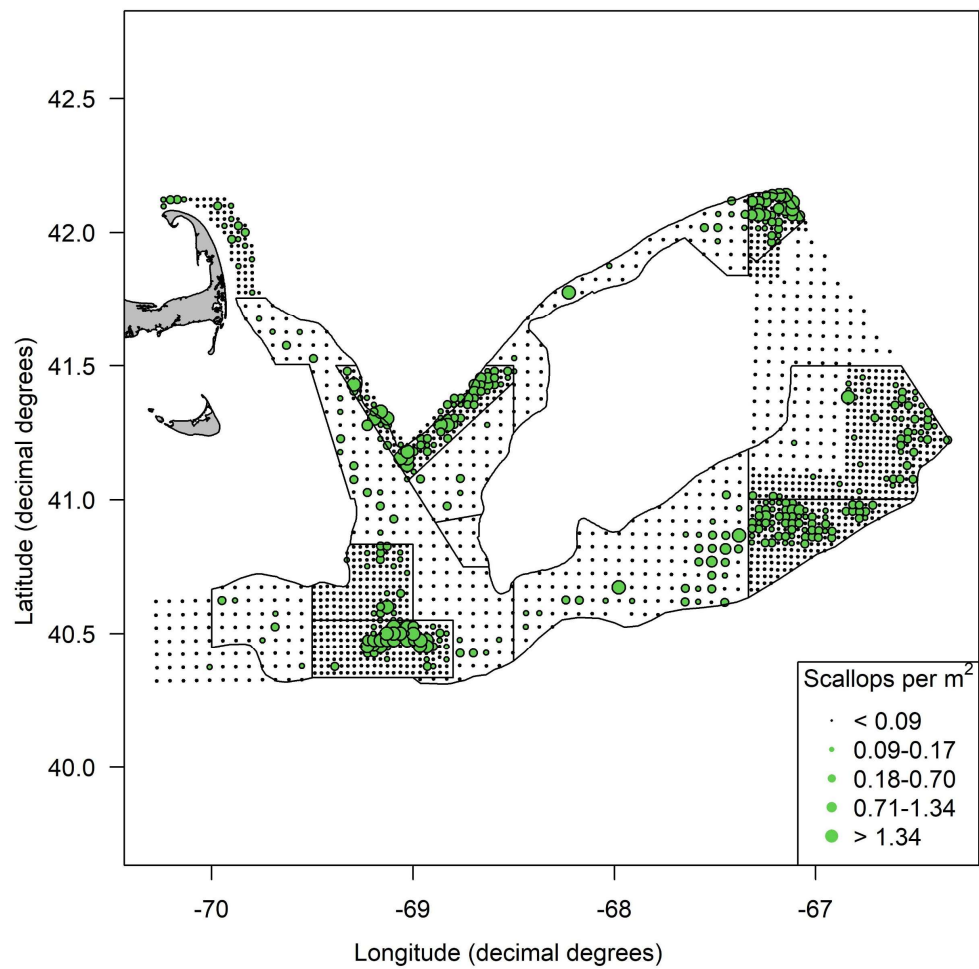


2026

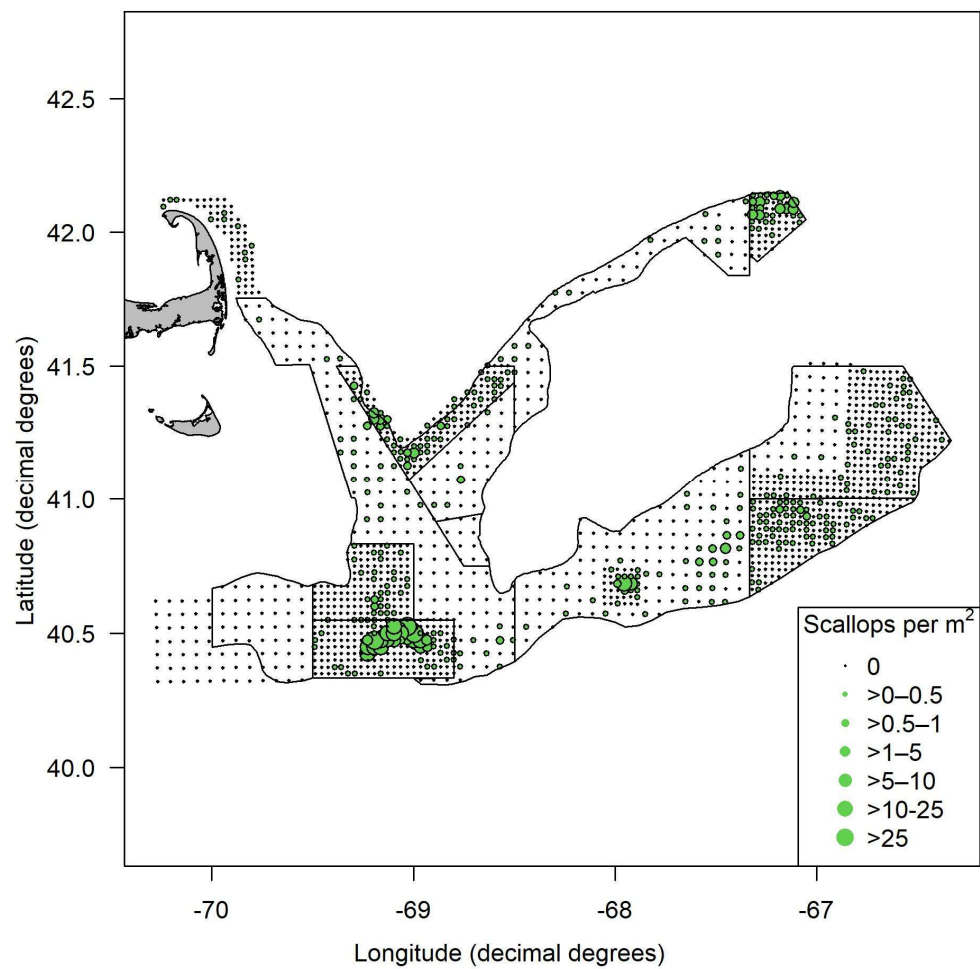


Recruits (35 to 75 mm shell height)

2025

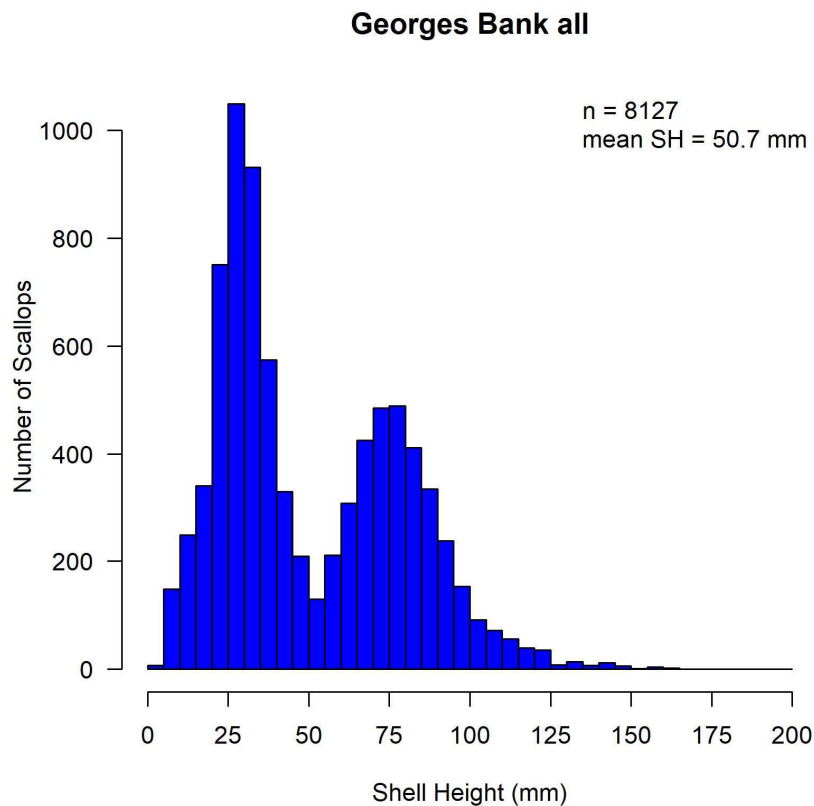


2026



Recruited (> 75 mm shell height)

Georges Bank – all areas and all sizes



Abundance (millions)			
2025	2026	Difference	Percentage change (%)
10,236	6,883	-3,353	-33
Biomass (metric tons)			
2025	2026	Difference	Percentage change (%)
58,316	55,578	-2,738	-5
Exploitable biomass (metric tons)			
2025	2026	Difference	Percentage change (%)
16,112	16,516	+404	+3

Acknowledgements

- RSA funding – thank you
- SMAST survey personnel and digitizers
- Electromechanica
- CVision AI
- Blue Fleet Welding
- New Bedford Ship Supply
- Captains and crew of F/V:
 - Elizabeth & Niki
 - Endeavor
 - Horizon
 - Redemption
 - Vigilance

