

2020 Drop Camera Scallop Survey Short Report

Gulf of Maine

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1.0 2020 SURVEY BIOMASS ESTIMATES

Table 1. Total biomass estimates from the 2020 SMAST drop camera survey by surveyed bank. Stations were 1 km apart for Stellwagen Bank, Jeffreys Ledge, Ipswich Bay, and Platts Bank. Meat weights were estimated following the 65th SARC shell-height to meat-weight formulas.

SMAST Drop Camera							
Size cutoff for estimates is 40mm							
GOM	NumMil	BmsMT	SE	MeanWt	Avg. Size	Scallop density	# Drop Cam Stations
Platts Bank	2.9	90	28	30.6	111.2	0.03	91
Ipswich Bank	5.9	146	36	24.4	91.2	0.05	119
Jeffreys Ledge	8.9	267	76	29.7	105.7	0.03	262
NGOM Stell. Bank	138	2101	709	15.2	80.3	0.71	195
NGOM TOTAL	156	2603					667
Non-NGOM Stell. Bank	203	4427	665	21.8	93.7	0.58	352

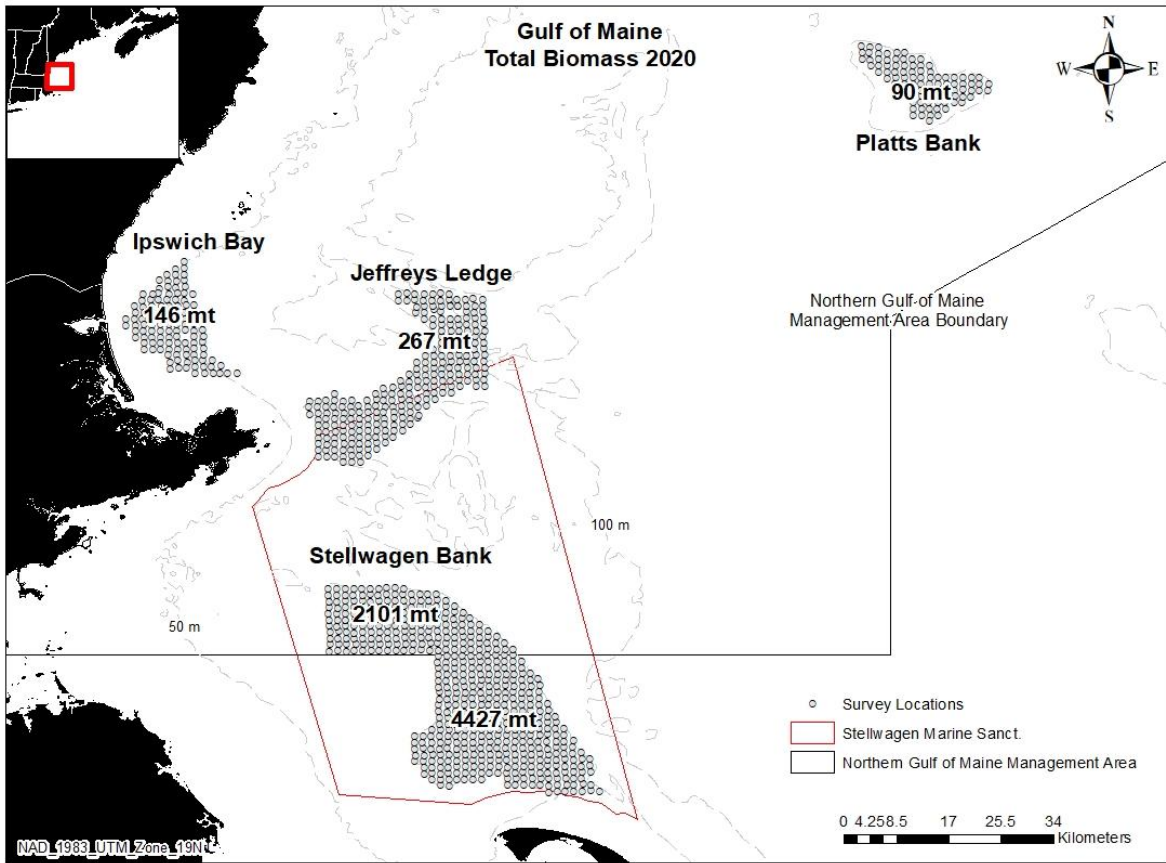


Figure 1. 2020 SMAST drop camera total biomass estimates of surveyed areas in the Gulf of Maine by bank.

2.0 FIGURES OF SURVEY COVERAGE

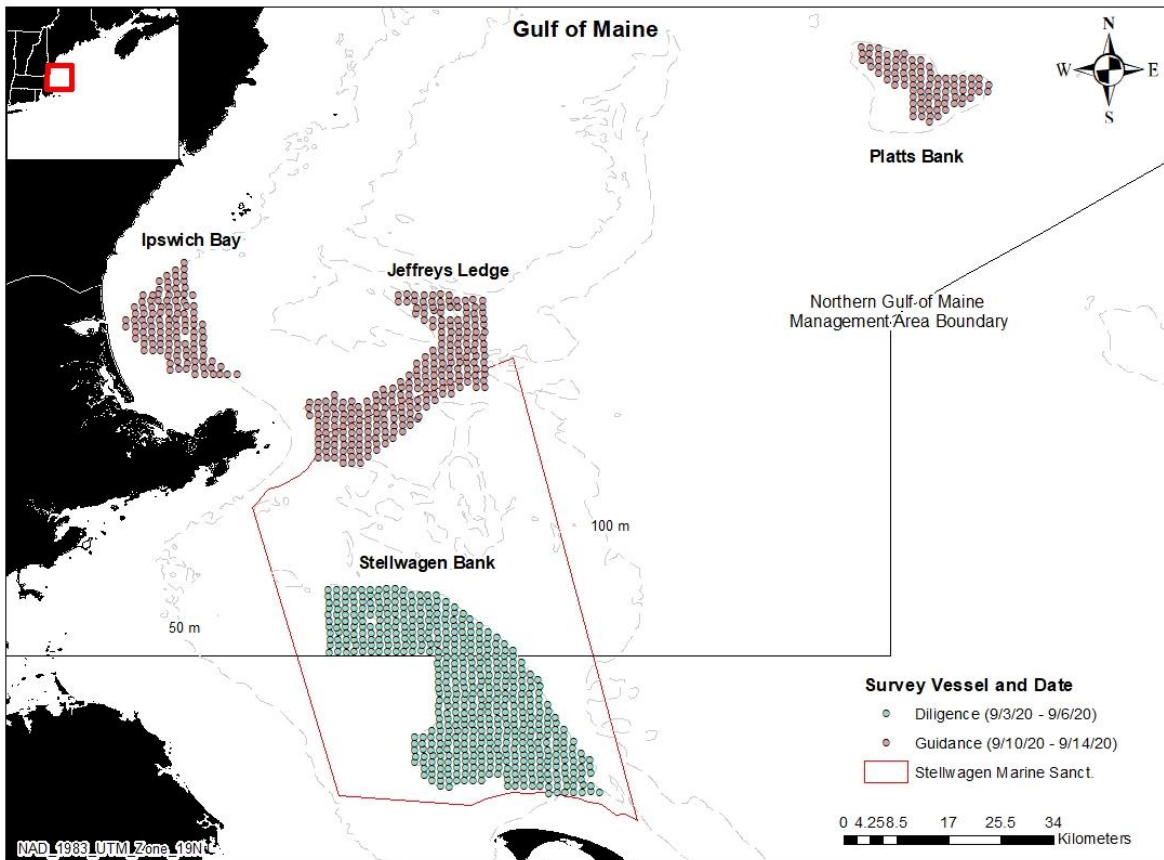


Figure 2. 2020 SMAST drop camera survey locations by vessel. Stations were 1 km apart on all surveyed banks in the Gulf of Maine.

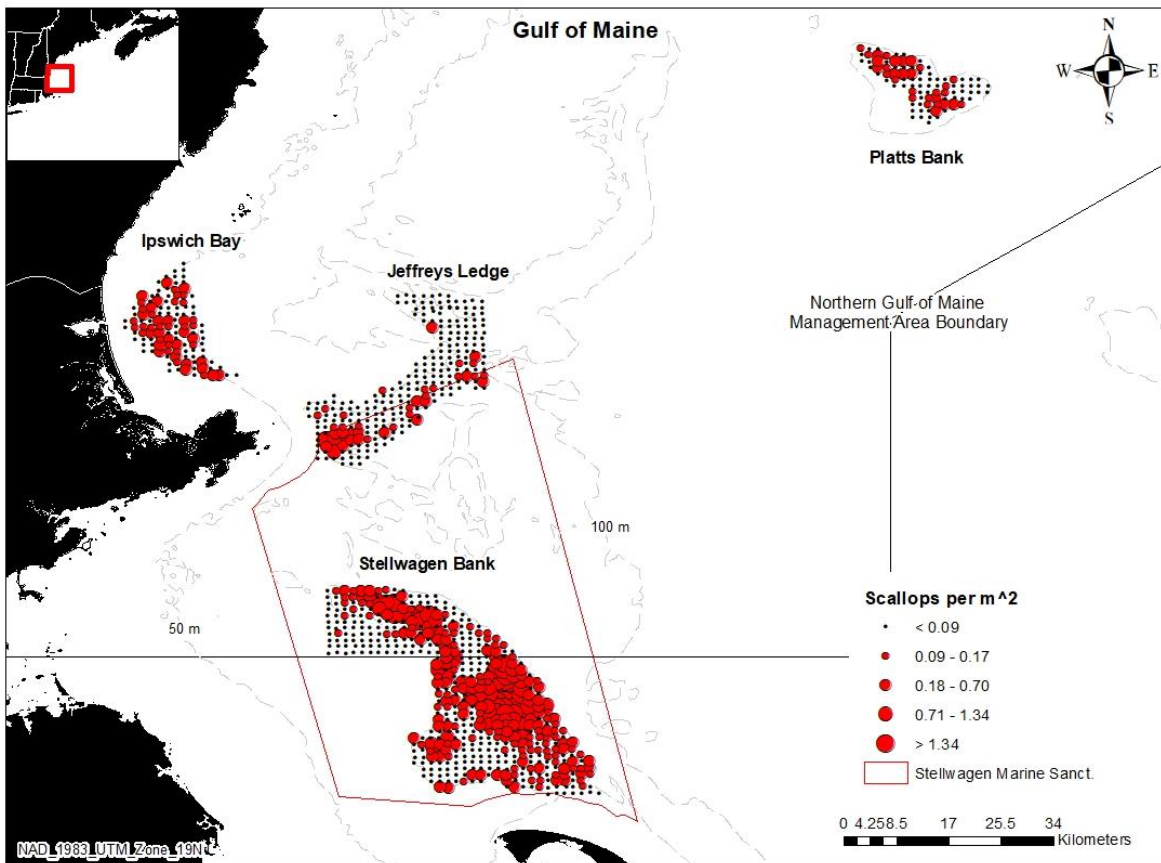


Figure 3. Overall scallop density from the 2020 SMAST drop camera survey stations in the Gulf of Maine.

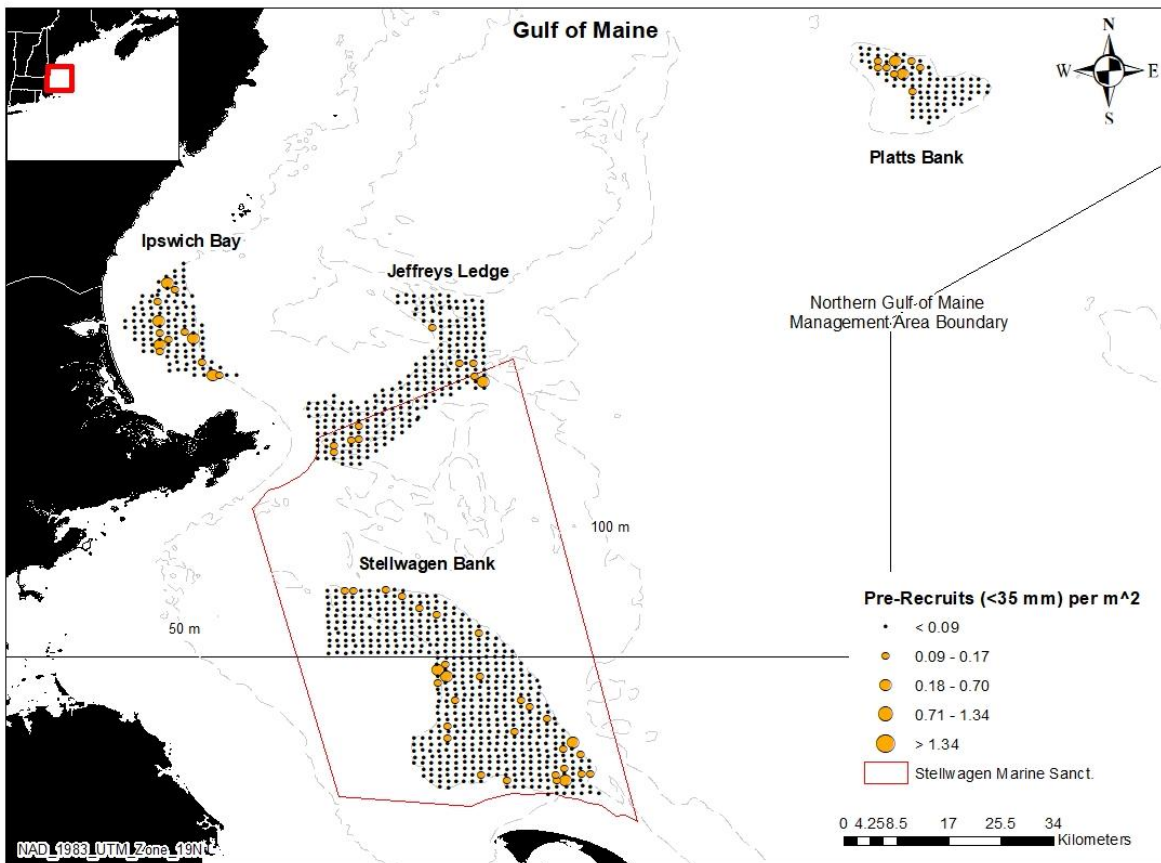


Figure 4. Pre-Recruit scallop density from the 2020 SMAST drop camera survey stations in the Gulf of Maine.

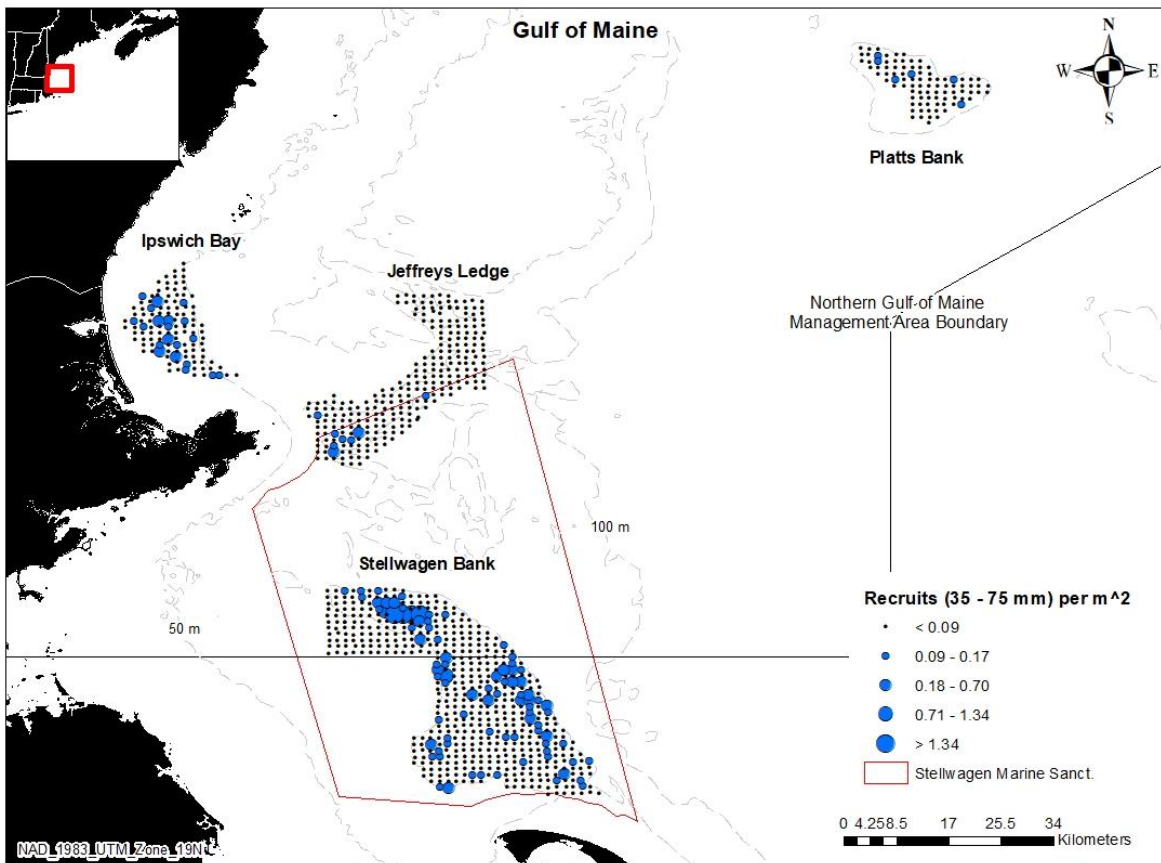


Figure 5. Recruit scallop density from the 2020 SMAST drop camera survey stations in the Gulf of Maine.

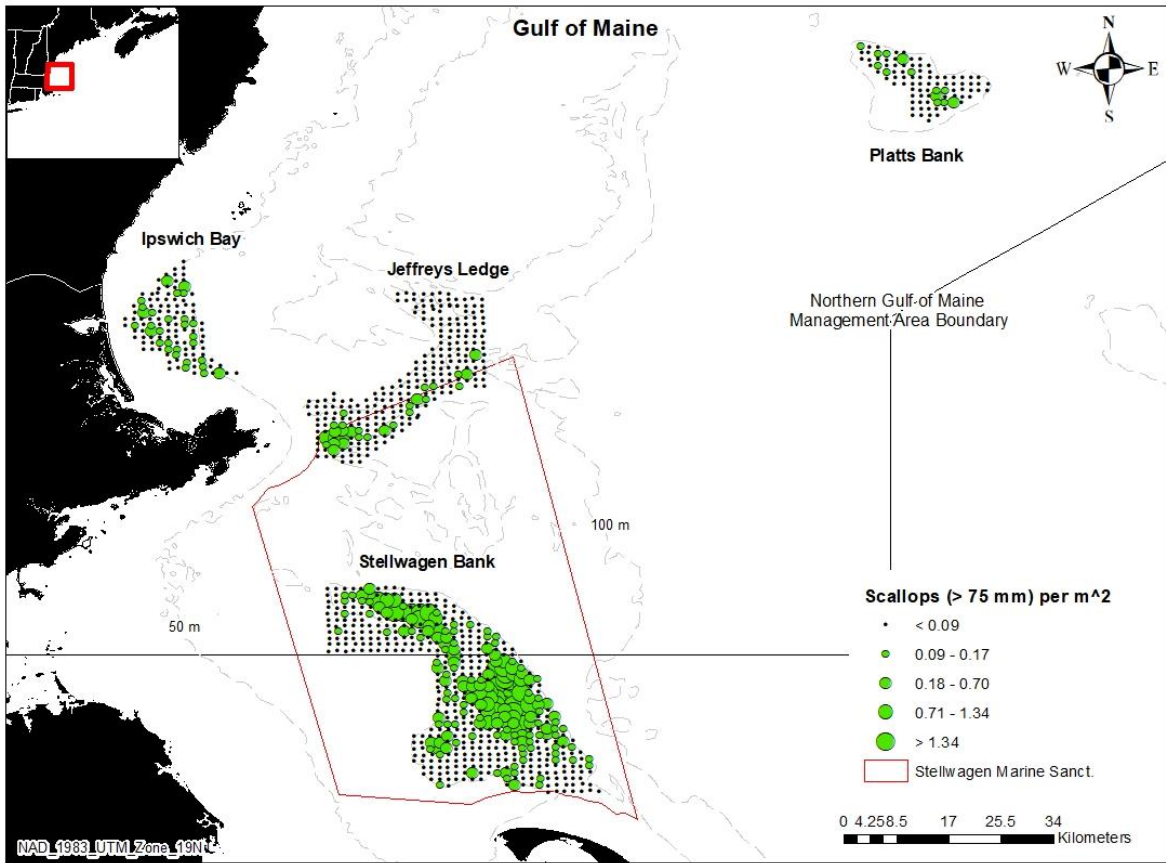


Figure 6. Scallops over 75 mm density from the 2020 SMAST drop camera survey stations in the Gulf of Maine.

3.0 LENGTH FREQUENCY PLOTS BY SAMS AREA

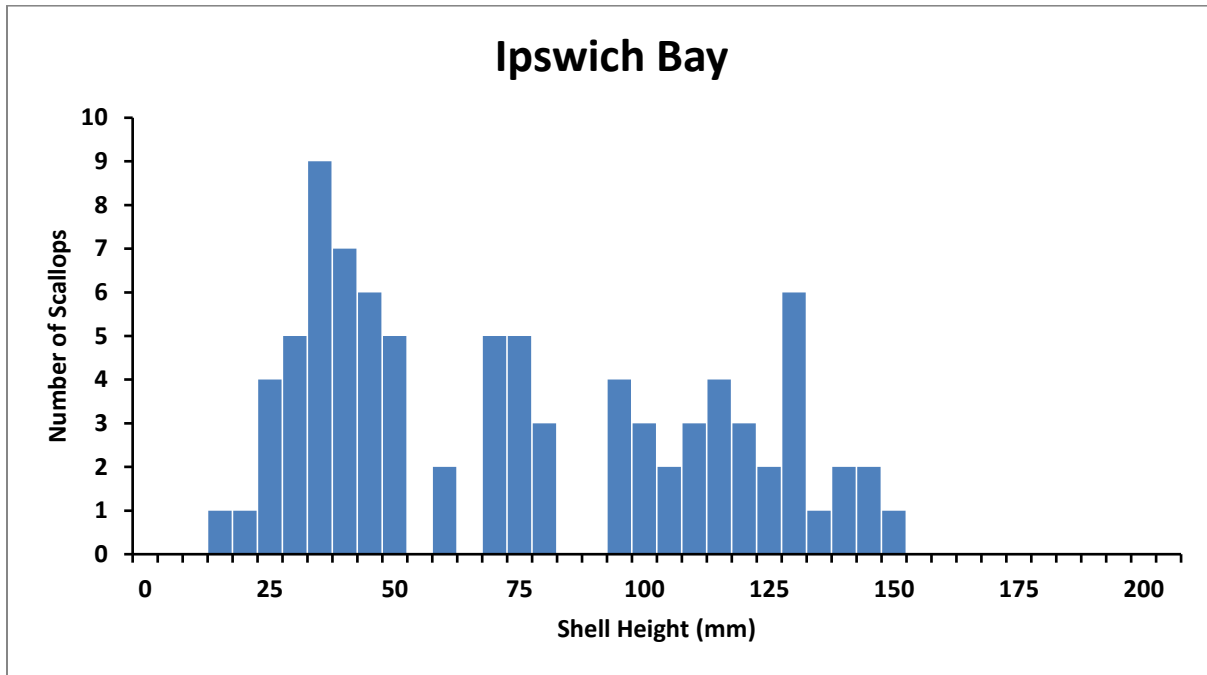


Figure 7. Shell height distribution of scallops in the Ipswich Bay area of the Northern Gulf of Maine Management Area from the 2020 SMAST drop camera survey. The overall shell height was 72.1 mm and 86 scallops were measured.

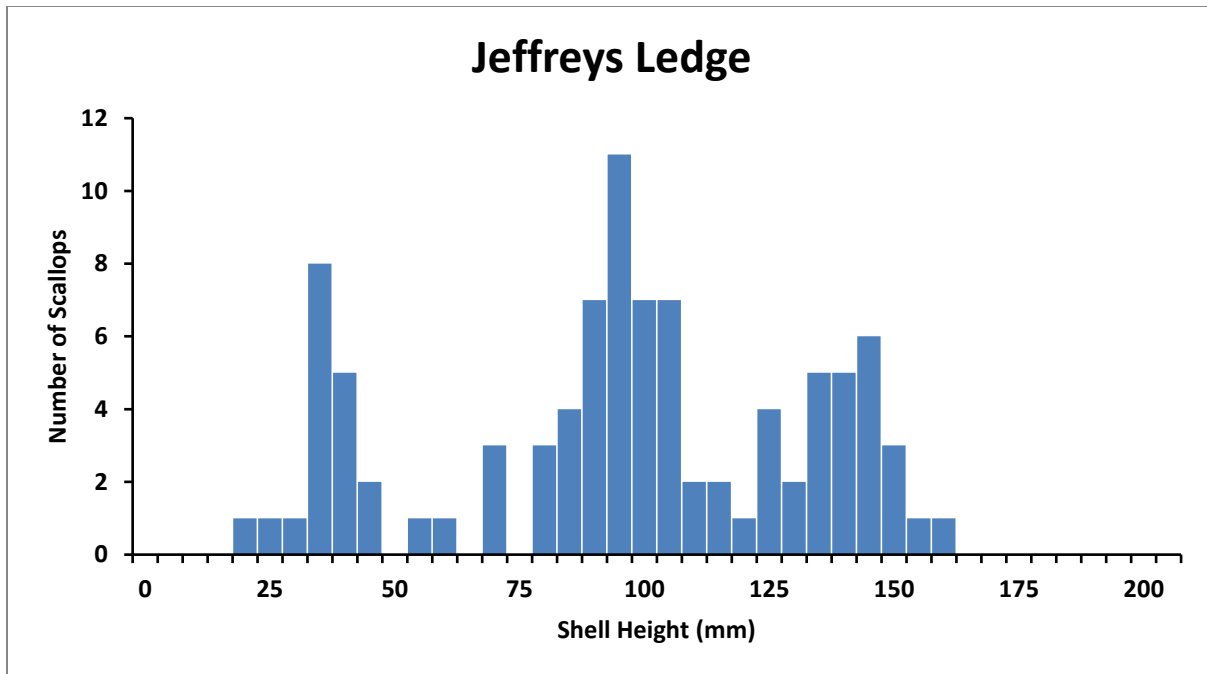


Figure 8. Shell height distribution of scallops in the Jeffreys Ledge area of the Northern Gulf of Maine Management Area from the 2020 SMAST drop camera survey. The overall shell height was 93.3 mm and 94 scallops were measured.

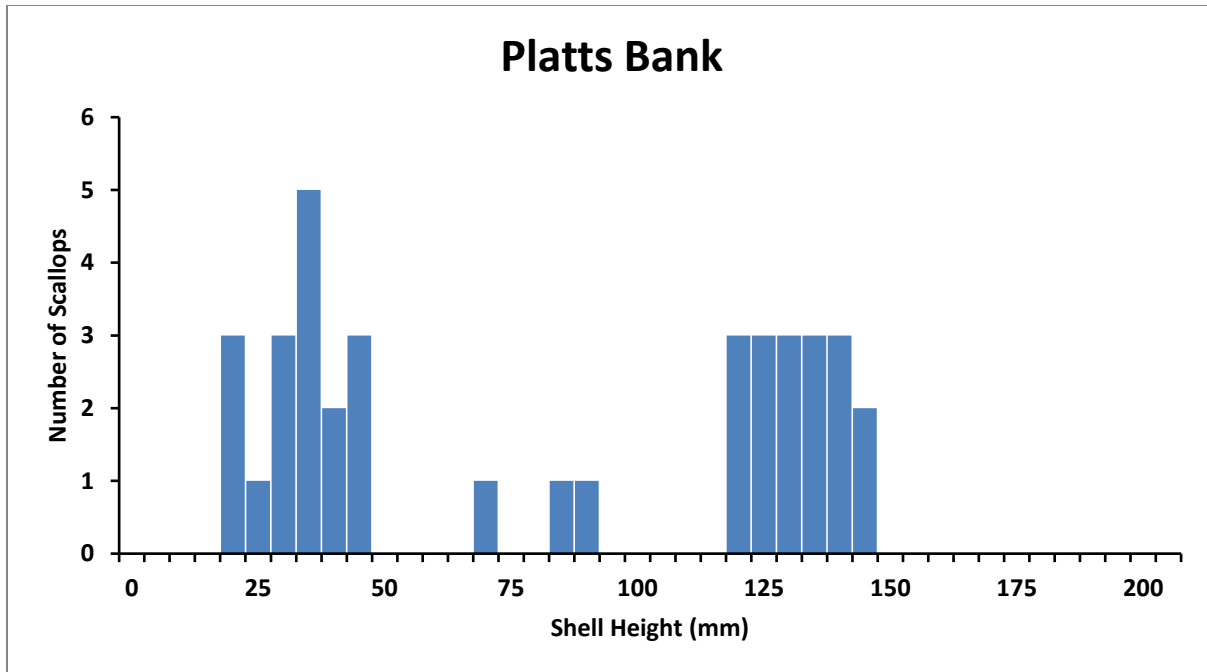


Figure 9. Shell height distribution of scallops in the Platts Bank area of the Northern Gulf of Maine Management Area from the 2020 SMAST drop camera survey. The overall shell height was 79.8 mm and 37 scallops were measured.

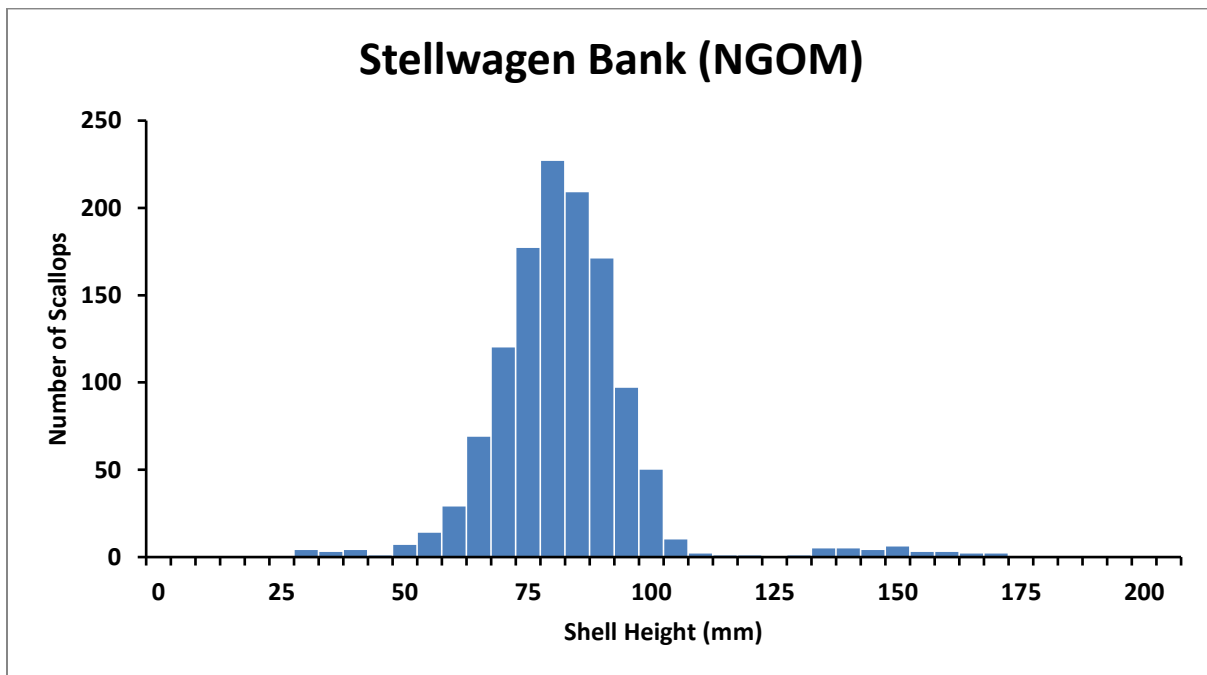


Figure 10. Shell height distribution of scallops in the Stellwagen Bank area of the Northern Gulf of Maine Management Area from the 2020 SMAST drop camera survey. The overall shell height was 79.8 mm and 1227 scallops were measured.

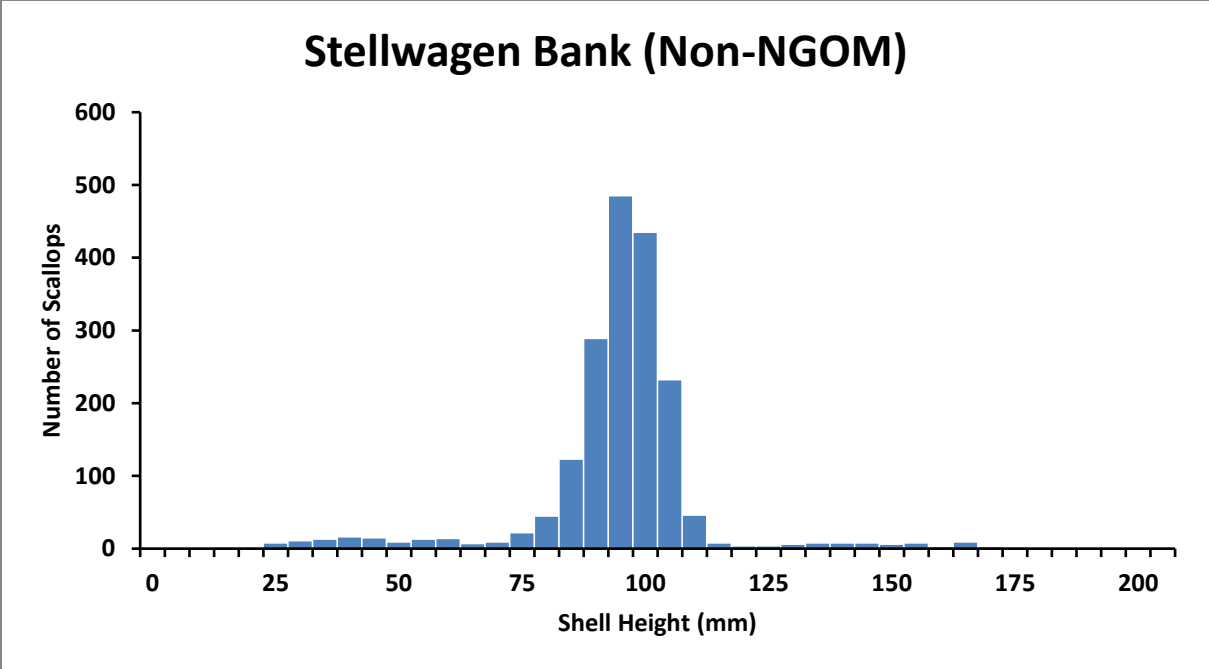


Figure 11. Shell height distribution of scallops in the Stellwagen Bank area outside of the Northern Gulf of Maine Management Area from the 2020 SMAST drop camera survey. The overall shell height was 92.1 mm and 1840 scallops were measured.

4.0 SPECIAL COMMENTS

5.0 EXPLOITABLE BIOMASS ESTIMATES FOR 2020 (CURRENT FY)

Table 2. Exploitable biomass estimates from the 2020 SMAST drop camera survey by surveyed bank. Stations were 1 km apart for Stellwagen Bank, Jeffreys Ledge, Ipswich Bay, and Platts Bank. Meat weights were estimated following the 65th SARC shell-height to meat-weight formulas.

SMAST Drop Camera				
GOM	NumMill	Exploitable BmsMT	SE	MeanWt
Platts Bank	2	79	25	39.0
Ipswich Bank	2.5	105	26	41.7
Jeffreys Ledge	4.9	201	58	41.5
NGOM Stell Bank	23.5	616	208	26.2
NGOM TOTAL	32.9	1002	79	37.1
Non-NGOM Stell Bank	72.3	1928	290	26.7

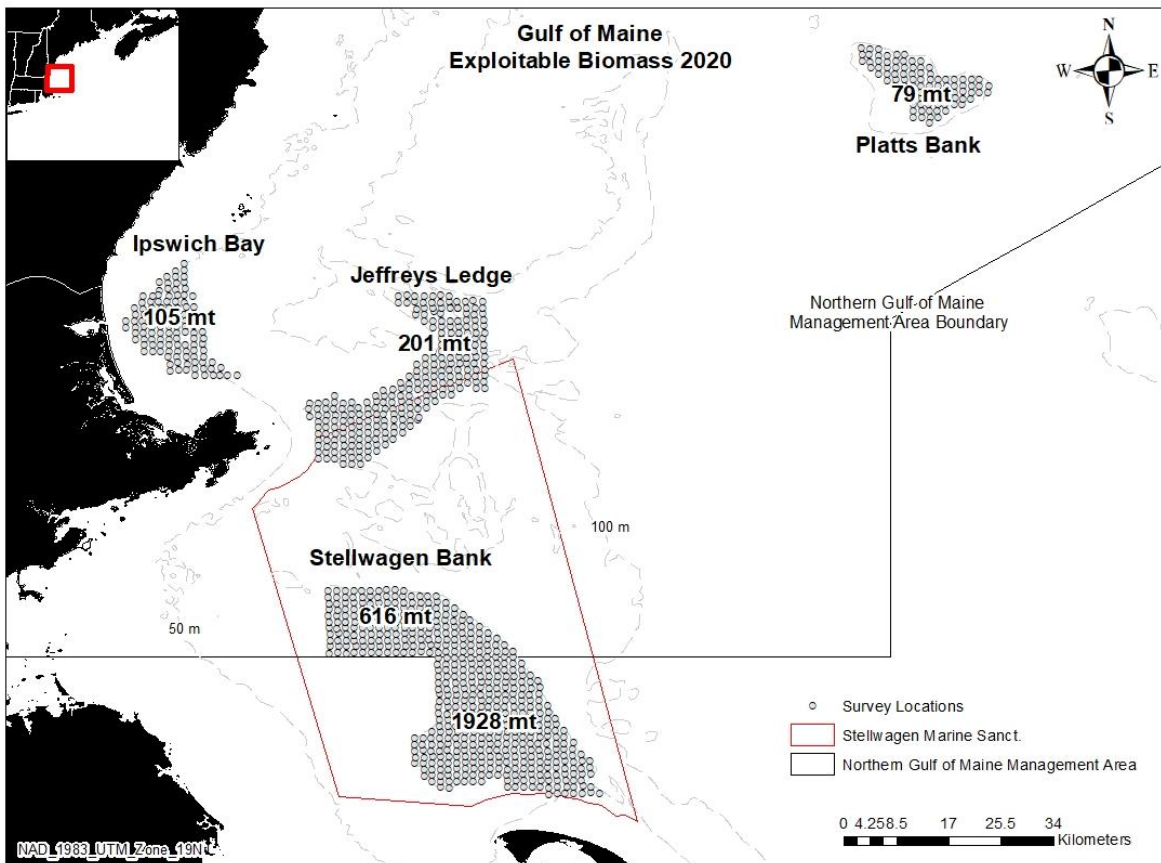


Figure 12. 2020 SMAST drop camera exploitable biomass estimates of surveyed areas in the Gulf of Maine by bank.