

Summary of Scallop RSA Awards

SECTIONS

1.0	Overview of RSA Funding: 2010 – 2017	1
2.0	2017/2018 RSA Awards	4
3.0	RSA Awards by Research Priority	6

Tables

Table 1 - Total projects and funding by research priority: 2010 - 2017	1
Table 2 - Number of RSA projects funded by Research Priority (2010 - 2017)	2
Table 3 - Status of RSA project from 2010 - 2016	2
Table 4 - RSA Funding by year from 2010 - 2017 by research organization	3
Table 5 - Summary of 2017/2018 RSA Awards, grouped by priority	4
Table 6 - 2017/2018 RSA Awards - Allocations and funding by RSA priority	5
Table 7 - Biology Projects	6
Table 8 - Bycatch Projects	7
Table 9 - Ecosystem/Habitat Projects	10
Table 10 - LPUE Projects	11
Table 11 - Scallop Meat Quality Projects	12
Table 12 - Non-harvest mortality projects	13
Table 13 - Turtle Projects	14
Table 14 - Survey Projects	15

1.0 OVERVIEW OF RSA FUNDING: 2010 – 2017

Table 1 - Total projects and funding by research priority: 2010 - 2017

Priority	Number of Projects Funded		Total Funding (% of total)	
Survey	47	(42%)	\$36,584,185	(38%)
Bycatch	28	(25%)	\$29,182,167	(30%)
Turtle	9	(8%)	\$7,226,437	(7%)
Non-harvest mortality	8	(7%)	\$6,643,424	(7%)
Ecosystem/ Habitat	7	(6%)	\$6,412,691	(7%)
Biology	6	(5%)	\$4,974,064	(5%)
Meat Quality	5	(4%)	\$2,965,334	(3%)
LPUE	1	(1%)	\$270,199	(>1%)
Survey/Habitat	1	(1%)	\$2,665,944	(3%)
Grand Total	112		\$96,924,445	

Table 2 - Number of RSA projects funded by Research Priority (2010 - 2017)

Priority	2010	2011	2012	2013	2014	2015	2016	2017	Grand Total
Survey	5	9	4	6	6	6	4	7	47
Bycatch	1	2	7	4	1	4	4	5	28
Turtle	2	1	1	1	1	1	1	1	9
Non-harvest mortality					4	3		1	8
Ecosystem/ Habitat		1		2	2	1		1	7
Biology		1		1		1	3		6
Meat Quality			1		1		2	1	5
LPUE								1	1
Survey/Habitat							1		1
Grand Total	8	14	13	14	15	16	15	17	112

Table 3 - Status of RSA project from 2010 - 2016

Status	Projects
Not presented	1
Used in Council Action or presented to AP/PDT	74
Ongoing	20

Table 4 - RSA Funding by year from 2010 - 2017 by research organization

Research Organization	Year								
	2010	2011	2012	2013	2014	2015	2016	2017	Grand Total
Coonamessett Farm	\$2,266,396	\$3,418,500	\$4,936,646	\$4,729,047	\$1,996,777	\$5,464,619	\$5,912,199	\$5,123,052	\$33,847,236
SMAST	\$1,840,511	\$1,484,784	\$2,570,390	\$3,126,763	\$3,058,102	\$4,094,626	\$952,286	\$3,910,300	\$21,037,762
VIMS	\$777,695	\$1,750,069	\$2,135,156	\$2,254,221	\$1,420,327	\$1,659,672	\$5,472,885	\$4,057,873	\$19,527,898
Arnie's Fisheries	\$1,706,300	\$998,000	\$1,297,656	\$995,894	\$1,789,680	\$1,437,888	\$586,540		\$8,811,958
University of Delaware					\$1,147,794	\$508,545		\$2,226,996	\$3,883,335
Northeastern University				\$1,107,448	\$919,277	\$801,465			\$2,828,190
WHOI							\$2,665,944		\$2,665,944
Maine DMR		\$589,314			\$558,515	\$372,344			\$1,520,173
Phoel Associates, Inc.		\$799,600							\$799,600
U Maine		\$712,455							\$712,455
National Fisheries Institute				\$338,931	\$366,588				\$705,519
Fisheries Specialists			\$584,375						\$584,375
Grand Total	\$6,590,902	\$9,752,722	\$11,524,223	\$12,552,304	\$11,257,060	\$14,339,159	\$15,589,854	\$15,318,221	\$96,924,445

2.0 2017/2018 RSA AWARDS

Table 5 - Summary of 2017/2018 RSA Awards, grouped by priority

<i>Category</i>	<i>Org.</i>	<i>Title</i>	<i>Pounds</i>	<i>Research</i>	<i>Comp.</i>
Bycatch	CFF	Optimizing the Georges Bank Scallop Fishery by Maximizing Meat Yield and Minimizing Bycatch	164,509	\$493,528	\$1,480,584
Bycatch	CFF	Development of an Extended Link Apron: A Broad Range Tool for Bycatch Reduction	87,000	\$261,000	\$783,000
Bycatch	CFF	Improving a low profile dredge using computational fluid dynamics and flume tank testing	38,662	\$115,985	\$347,955
Bycatch	SMAST	Measuring Swimming Capacity of Yellowtail and Windowpane Flounders	41,425	\$124,276	\$372,826
Bycatch	VIMS	Evaluating the Condition and Discard Mortality of Monkfish, <i>Lophius americanus</i> , Following Capture and Handling in the Sea Scallop Dredge Fishery	128,252	\$346,718	\$1,192,309
Ecosystem /Habitat	SMAST	Sea Scallop Larval and Early Juvenile Transport along the Northeast Continental shelf: A Modeling Tool to Enhance Scallop Management of Rotationally Closed Areas	113,137	\$339,065	\$1,017,195
LPUE	SMAST	Factors Influencing Scallop Landings per Unit Effort (LPUE)	22,517	\$77,200	\$192,999
Meat Quality	SMAST	Monitoring Gray Meat Infestations in Atlantic Sea Scallops in a Closed Area on Georges Bank	35,680	\$119,884	\$308,276
Non-harvest mortality	U of Delaware	A Study of Incidental Mortality in Sea Scallops Investigating Predator Response and Size Selective Rates Of Mortality From BACI Image Surveys	185,583	\$556,748	\$1,670,248
Survey	CFF	An Optical Assessment of Sea Scallop and Predator Abundance and Distribution in the Nantucket Lightship Closed Area and Surrounds in Coordination with the VIMS Dredge Survey	61,833	\$195,750	\$546,250

Survey	SMAST	High-resolution Drop Camera Survey Examining the Scallop Population and Habitat in the Closed Area I Access Area and Sliver	12,137	\$42,480	\$103,167
Survey	SMAST	High-resolution Drop Camera Survey Examining the Scallop Population and Habitat in the Closed Area II Access Area and Extension	25,560	\$89,458	\$217,257
Survey	SMAST	2017 BROADSCALE Drop Camera Survey of the US East Coast Sea Scallop Resource	75,518	\$256,681	\$649,536
Survey	VIMS	A Cooperative High Precision Dredge Survey to Assess the Mid-Atlantic Sea Scallop Resource Area in 2018	74,426	\$182,373	\$710,741
Survey	VIMS	An Assessment of Sea Scallop Abundance and Distribution in Georges Bank Closed Area II and the Southern Extension Closure	30,435	\$80,044	\$285,178
Survey	VIMS	A Study to Assess the Effect of Tow Duration and Estimate Dredge Efficiency for the VIMS Sea Scallop Dredge Survey	105,043	\$283,615	\$976,895
Turtles	CFF	Understanding the Impacts of the Atlantic Sea Scallop Fishery on Loggerhead Sea Turtles	74,917	\$224,750	\$674,250

Table 6 - 2017/2018 RSA Awards - Allocations and funding by RSA priority

Priority	Sum of Pounds	Sum of Research	Sum of Compensation	Sum of Total
Bycatch	459,848	\$1,341,507	\$4,176,674	\$5,518,181
Survey	384,952	\$1,130,401	\$3,489,024	\$4,619,425
Non-harvest mortality	185,583	\$556,748	\$1,670,248	\$2,226,996
Ecosystem/Habitat	113,137	\$339,065	\$1,017,195	\$1,356,260
Turtles	74,917	\$224,750	\$674,250	\$899,000
Meat Quality	35,680	\$119,884	\$308,276	\$428,160
LPUE	22,517	\$77,200	\$192,999	\$270,199
Grand Total		\$3,789,555	\$11,528,666	\$15,318,221

3.0 RSA AWARDS BY RESEARCH PRIORITY

Table 7 - Biology Projects

Year	Primary Project Category	Title	Principal Investigator	Organization	Funding	Used by Council
2016	Biology	Drivers of Dispersal and Retention in Recently Seeded Sea Scallops	Shea Miller, Leise Siemann, Jasper Leavitt	Coonamessett Farm	\$1,080,128	
2016	Biology	Scallop Mark-Recapture to Estimate Density Dependent Natural Mortality and Growth	David Rudder, John Hoenig	VIMS	\$594,284	
2016	Biology	Age Structure and Growth Rate in the Sea Scallop (2 years)	Roger Mann, David Rudders	VIMS	\$613,673	Presenting today
2015	Biology	Habitat Characterization and Sea Scallop Resource Enhancement Study in a Proposed Habitat Research Area –Year Three	Ward, Siemann, Parkins	Coonamessett Farm	\$979,680	Presenting
2013	Biology	Survey of Persistent Scallop Aggregations and an Examination of Their Influence on Recruitment Using the FVCOM Oceanographic Model	Stokesbury, Chen, He, & Harris	SMAST	\$993,844	Presented in 2014, 2016
2011	Biology	Developing Tools to Evaluate Spawning and Fertilization Dynamics of the Giant Sea Scallop Phase II: Field Trials in Experimental Populations	Richard Wahle and Peter Jumars	U Maine	\$712,455	Ongoing-Conflict with meeting date - Results expected in 2017

Table 8 - Bycatch Projects

Year	Primary Project Category	Title	Principal Investigator	Org.	Funding	Used by Council
2017	Bycatch	Optimizing the Georges Bank Scallop Fishery by Maximizing Meat Yield and Minimizing Bycatch	Luisa Garcia	Coonamesett Farm	\$1,974,112	
2017	Bycatch	Development of an Extended Link Apron: A Broad Range Tool for Bycatch Reduction	Farrell Davis	Coonamesett Farm	\$1,044,000	
2017	Bycatch	Improving a low profile dredge using computational fluid dynamics and flume tank testing	Liese Siemann	Coonamesett Farm	\$463,940	
2017	Bycatch	Measuring Swimming Capacity of Yellowtail and Windowpane Flounders	Pingguo He	SMAST	\$497,102	
2017	Bycatch	Evaluating the Condition and Discard Mortality of Monkfish, <i>Lophius americanus</i> , Following Capture and Handling in the Sea Scallop Dredge Fishery	David Rudders	VIMS	\$1,539,027	
2016	Bycatch	Optimizing the Georges Bank Scallop Fishery by Maximizing Meat Yield and Minimizing Bycatch	Carl Huntsberger , Jasper Leavitt, Rachel Simpson,	Coonamesett Farm	\$1,994,292	Presenting today
2016	Bycatch	Development of Ecosystem Friendly Scallop Dredge Bags: Tools for Long-Term Sustainability	Farrell Davis, Christopher Parkins, Melissa Campbell	Coonamesett Farm	\$1,576,200	Presenting today

2016	Bycatch	A modified flounder sweep for flatfish bycatch reduction in the LAGC scallop fishery	Christopher Parkins and Farrell Davis	Coonamesett Farm	\$369,520	Presenting today
2016	Bycatch	Scallop Fishery Bycatch Avoidance System 2016	Steve Cadrin	SMAST	\$312,500	Work is ongoing
2015	Bycatch	Optimizing the Georges Bank Scallop Fishery by Maximizing Meat Yield and Minimizing Bycatch	Huntsberger , Davis, Miller, Parkins	Coonamesett Farm	\$1,999,832	Presenting
2015	Bycatch	Determination of the Impacts of Dredge Speed on Bycatch Reduction and Scallop Selectivity Weights of NW Atlantic Sea Scallops	Davis, Parkins, Ward	Coonamesett Farm	\$950,112	Ongoing Today
2015	Bycatch	Determining the Impacts of Dredge Bag Modifications on Flatfish Bycatch in the LAGC Scallop Fishery	Parkins and Davis	Coonamesett Farm	\$308,200	Ongoing- Results expected in 2017
2015	Bycatch	Scallop Fishery Bycatch Avoidance System 2015	Catherine E. O'Keefe	SMAST	\$732,252	Presented in 2016
2014	Bycatch	Scallop Bycatch Avoidance System	Steven Cadrin	SMAST	\$678,955	Presented in 2015
2013	Bycatch	Preventing Bycatch of Yellowtail Flounder in the Scallop Fishery	Grothues, Bochenek, & Roma	National Fisheries Institute	\$338,931	Presented in 2015
2013	Bycatch	Testing of Scallop Dredge Bag Design Changes For Flatfish Bycatch Reduction	Ronald Smolowitz	Coonamesett Farm	\$995,712	Used in FW25
2013	Bycatch	Scallop Fishery Bycatch Avoidance System	Steven Cadrin	SMAST	\$637,417	Presented in 2014
2013	Bycatch	Seasonal Bycatch Survey of the Georges Bank Scallop Fishery	Ronald Smolowitz	Coonamesett Farm	\$2,522,307	Used in FW25

2012	Bycatch	Bycatch Characterization in the Southern New England Sea Scallop Fishery	Kathleen Castro	Fisheries Specialists	\$584,375	Presented in 2014
2012	Bycatch	Evaluating the Condition and Discard Mortality of Skates Following Capture and Handling in the Sea Scallop Dredge Fishery	Dave Rudders	VIMS	\$1,092,642	Presented in 2014
2012	Bycatch	Design and Test of a Hydrodynamic Scallop Dredge to Reduce Bycatch, Minimize Bottom Impact and Improve Fuel Efficiency	Pingguo He	SMAST	\$836,854	Presented in 2014
2012	Bycatch	Testing of Scallop Dredge Bag Design Changes For Flatfish Bycatch Reduction	Ron Smolowitz	Coonamesett Farm	\$888,132	Used in FW25
2012	Bycatch	Real-Time Electronic Bycatch Reporting Pilot Project	Ron Smolowitz	Coonamesett Farm	\$711,720	Presented in 2015
2012	Bycatch	Expansion of the Yellowtail Bycatch System	Steven Cadrin	SMAST	\$426,729	Presented in 2014
2012	Bycatch	Seasonal Bycatch Survey of the George's Bank Scallop Fishery	Ron Smolowitz	Coonamesett Farm	\$2,538,554	Used in FW25
2011	Bycatch	Testing of a low profile scallop dredge for bycatch reduction	Ronald Smolowitz	Coonamesett Farm	\$836,800	Presented in 2014
2011	Bycatch	Optimizing the George's Bank Scallop Fishery by Maximizing Meat Yield and Minimizing Bycatch	Ronald Smolowitz	Coonamesett Farm	\$1,847,700	Used in FW24, 25
2010	Bycatch	Real-Time Electronic Bycatch Reporting Pilot Project	Ron Smolowitz	Coonamesett Farm	\$484,250	Presented in 2014

Table 9 - Ecosystem/Habitat Projects

Year	Primary Project Category	Title	Principal Investigator	Organization	Funding	Used by Council
2017	Ecosystem/Habitat	Sea Scallop Larval and Early Juvenile Transport along the Northeast Continental shelf: A Modeling Tool to Enhance Scallop Management of Rotationally Closed Areas	Changsheng Chen	SMAST	\$1,356,260	
2015	Ecosystem/Habitat	Investigating the Effects of Ocean Acidification and Warming on the Shell Properties and Meat Weights of NW Atlantic Sea Scallops Via Paired Field Surveys and Laboratory Experiments	Ries, Grabowski, Harris, Stokesbury	Northeastern University	\$801,465	Presenting
2014	Ecosystem/Habitat	Habitat Characterization and Sea Scallop Resource Enhancement Study in Proposed Habitat Research Area-Year 2	Thompson, Ward, Smolowitz, Stokesbury	Coonamesett Farm	\$770,852	Presenting
2014	Ecosystem/Habitat	Investigating the Effects of Ocean Acidification and Warming on the Shell Properties and Meat Weights of NW Atlantic Sea Scallops Via Paired Field Surveys and Laboratory Experiments	Ries and Grabowski	Northeastern University	\$919,277	Presenting

2013	Ecosystem/ Habitat	Identifying Source Sink Dynamics in Sea Scallop Populations of the Northwest Atlantic	Grabowski, Harris, & Vollmer	Northeastern University	\$1,107,448	Presented in 2014, 2016
2013	Ecosystem/ Habitat	Habitat Characterization and Sea Scallop Resource Enhancement Study in a Proposed Habitat Research Area	Ronald Smolowitz	Coonamessett Farm	\$806,436	Presented in 2014
2011	Ecosystem/ Habitat	Effects of Mobile Fishing Gear on Geological and Biological Structure: a Georges Bank Closed Versus Open Area Comparison	Bradley Harris and Kevin Stokesbury	SMAST	\$650,953	Presented in 2014

Table 10 - LPUE Projects

Year	Primary Project Category	Title	Principal Investigator	Organization	Funding	Used by Council
2017	LPUE	Factors Influencing Scallop Landings per Unit Effort (LPUE)	Steven Cadrin and Cate O'Keefe	SMAST	\$270,199	

Table 11 - Scallop Meat Quality Projects

Year	Primary Project Category	Title	Principal Investigator	Organization	Funding	Used by Council
2017	Meat Quality	Monitoring Gray Meat Infestations in Atlantic Sea Scallops in a Closed Area on Georges Bank	Daniel Georgiana	SMAST	\$428,160	
2016	Meat Quality	Transmission of Apicomplexan Infection and Development of Gray Meat in Atlantic Sea Scallops (2 years)	Jennifer Koop, Susan Inglis	SMAST	\$639,786	Work is ongoing
2016	Meat Quality	An Investigation into the scallop parasite outbreak on the Mid-Atlantic shelf: Transmission Pathways, Spatio-Temporal variation of infection, and consequences of marketability (2 years)	David Rudders, Rutgers team	VIMS	\$945,422	Presenting today
2014	Meat Quality	Tracking the Occurrence of grey meat in Atlantic Sea Scallops	Kevin Stokesbury	SMAST	\$572,123	Presented in 2015
2012	Meat Quality	What Causes Gray Meat in the Atlantic Sea Scallop <i>Placopecten Magellanicus</i> in Georges Bank Closed Areas?	Kevin Stokesbury	SMAST	\$379,843	Presented in 2014

Table 12 - Non-harvest mortality projects

Year	Primary Project Category	Title	Principal Investigator	Organization	Funding	Used by Council
2017	Non-harvest mortality	A Study of Incidental Mortality in Sea Scallops Investigating Predator Response and Size Selective Rates Of Mortality From BACI Image Surveys	Arthur Trembanis	University of Delaware	\$2,226,996	
2015	Non-harvest mortality	Discard Mortality of Sea Scallops Following Capture and Handling in the Sea Scallops Dredge Fishery	Rudders, Sulikowski, Mandelman	VIMS	\$693,200	Ongoing-Results presented in 2015
2015	Non-harvest mortality	Incidental Mortality Estimates of Sea Scallops from AUV based BACI Surveys	Trembanis, Miller, Rudders	University of Delaware	\$508,545	Presented in 2016
2015	Non-harvest mortality	Estimating Incidental Mortality in the Sea Scallop Fishery	Ron Smolowitz	Coonamessett Farm	\$429,755	Presented in 2015
2014	Non-harvest mortality	Incidental Mortality Estimates of Sea Scallops from AUV based BACI Surveys	Trembanis, Miller, and Rudders	University of Delaware	\$1,147,794	Presented in 2016
2014	Non-harvest mortality	Estimating Incidental Mortality in the Sea Scallop Fishery	Ron Smolowitz	Coonamessett Farm	\$306,565	Presented in 2015
2014	Non-harvest mortality	Determining Incidental Discard Mortality of Atlantic Sea Scallops, <i>Placopecten magellanicus</i>	Eleanor Bochenek and Jason Morson	National Fisheries Institute	\$366,588	Presented in 2016
2014	Non-harvest mortality	Discard Mortality of Sea Scallops Following Capture and Handling in the	David Rudders	VIMS	\$963,981	Presented in 2015

		Sea Scallops Dredge Fishery				
--	--	-----------------------------	--	--	--	--

Table 13 - Turtle Projects

Year	Primary Project Category	Title	Principal Investigator	Organization	Funding	Used by Council
2017	Turtle	Understanding the Impacts of the Atlantic Sea Scallop Fishery on Loggerhead Sea Turtles	Samir Patel	Coonamessett Farm	\$899,000	
2016	Turtle	Understanding Impacts of the Sea Scallop Fishery on Loggerhead Sea Turtles Through Satellite Tagging	Samir Patel, Shea Miller	Coonamessett Farm	\$892,058.50	Ongoing
2015	Turtle	Understanding Impacts of the Sea Scallop Fishery on Loggerhead Sea Turtles through Satellite Tagging	Shea Miller	Coonamessett Farm	\$797,040	Presented in 2016
2014	Turtle	Understanding Impacts of the Sea Scallop Fishery on Loggerhead Sea Turtles	Daniel Ward and Brianna Valenti	Coonamessett Farm	\$919,360	Used in FW26 for AE
2013	Turtle	Understanding Impacts of the Sea Scallop Fishery on Loggerhead Sea Turtles through Satellite Tagging	Ronald Smolowitz	Coonamessett Farm	\$404,592	Presented in 2014
2012	Turtle	Understanding Impacts of the Sea Scallop Fishery on Loggerhead Sea Turtles Through Satellite Tagging	Ron Smolowitz	Coonamessett Farm	\$798,240	Used in FW25 for AE

2011	Turtle	Understanding Impacts of the Sea Scallop Fishery on Loggerheads through Satellite Tagging	Ronald Smolowitz	Coonamessett Farm	\$734,000	Used in FW23
2010	Turtle	Loggerhead Sea Turtle Ecology on the Sea Scallop Grounds	Ron Smolowitz	Coonamessett Farm	\$863,962	Used in FW23
2010	Turtle	Testing of Modifications to the Cfarm Turtle Excluder Dredge for Bycatch Reduction	Ron Smolowitz	Coonamessett Farm	\$918,184	Used in FW23, 24

Table 14 - Survey Projects

Year	Primary Project Category	Title	Principal Investigator	Organization	Funding	Used by Council
2017	Survey	An Optical Assessment of Sea Scallop and Predator Abundance and Distribution in the Nantucket Lightship Closed Area and Surrounds in Coordination with the VIMS Dredge Survey	Ronald Smolowitz	Coonamessett Farm	\$742,000	
2017	Survey	High-resolution Drop Camera Survey Examining the Scallop Population and Habitat in the Closed Area I Access Area and Sliver	Kevin Stokesbury	SMAST	\$145,647	
2017	Survey	High-resolution Drop Camera Survey Examining the Scallop Population and Habitat in the Closed Area II Access Area and Extension	Kevin Stokesbury	SMAST	\$306,715	

2017	Survey	2017 BROADSCALE DROP CAMERA SURVEY OF THE US EAST COAST SEA SCALLOP RESOURCE	Kevin Stokesbury	SMAST	\$906,217	
2017	Survey	A Cooperative High Precision Dredge Survey to Assess the Mid-Atlantic Sea Scallop Resource Area in 2018	David Rudders	VIMS	\$893,114	
2017	Survey	An Assessment of Sea Scallop Abundance and Distribution in Georges Bank Closed Area II and the Southern Extension Closure	David Rudders	VIMS	\$365,222	
2017	Survey	A Study to Assess the Effect of Tow Duration and Estimate Dredge Efficiency for the VIMS Sea Scallop Dredge Survey	David Rudders	VIMS	\$1,260,510	
2016	Survey	Optical Survey of the Scallop Resource in the Elephant Trunk Scallop Access Area	Richard Taylor	Arnie's Fisheries	\$586,540	Used in FW28
2016	Survey	A Cooperative High Precision Dredge Survey to Assess the Mid-Atlantic Sea Scallop Resource Area (2-years)	David Rudders, Sally Roman, Robert Fisher	VIMS	\$1,979,346	Used in FW28
2016	Survey	An Assessment of Sea Scallop Abundance and Distribution in the Nantucket Lightship Closed Area and Surrounds (2 years)	David Rudders, Sally Roman	VIMS	\$891,945	Used in FW28
2016	Survey	An Assessment of Sea Scallop Abundance and Distribution in Georges Bank Closed Area II and Surrounds	David Rudders	VIMS	\$448,215	Used in FW28

2015	Survey	Optical Survey of the Resource in the Elephant Trunk Scallop Access Area	Rosonina, Bolles Hopkins, Vine, Chang, Taylor	Arnie's Fisheries	\$629,328	FW27, August pres
2015	Survey	Optical Survey of Recent Scallop Settlement Areas Along the Southern New England Shelf Including the Southern Portion of the Nantucket Lightship Scallop Access Area	Rosonina, Bolles Hopkins, Vine, Chang, Taylor	Arnie's Fisheries	\$808,560	FW27, August pres
2015	Survey	Broadscale Video Survey of Georges Bank Scallop Open Areas	Stokesbury	SMAST	\$1,994,248	FW27, August pres
2015	Survey	Development and Implementation of a High Precision Resource Wide Dredge Survey of the Mid-Atlantic Scallop Resource Area	Rudders	VIMS	\$966,472	FW27, August pres
2015	Survey	Assessment of Sea Scallop in Federal and Adjacent State Waters of the Gulf of Maine	Kevin Kelly	Maine DMR	\$372,344	Results to PDT in August 2016
2015	Survey	Broadscale Video Survey of the Open Areas of George's Bank	Kevin Stokesbury	SMAST	\$1,368,126	FW27, August pres
2014	Survey	Assessment of Sea Scallop Distribution in Federal and Adjacent State Waters of the Gulf of Maine	Kevin Kelly	Maine DMR	\$558,515	Results to PDT in August 2016
2014	Survey	An Assessment of Sea Scallop Abundance and Distribution in the Long Island/Southern New England Area	David Rudders	VIMS	\$456,346	Used in FW26
2014	Survey	Broadscale Video Survey of the Open Areas of George's Bank	Kevin Stokesbury	SMAST	\$1,368,126	Used in FW26

2014	Survey	Optical Survey of Recent Scallop Settlement Areas Along the Southern New England Continental Shelf	Richard Taylor	Arnie's Fisheries	\$894,360	Used in FW26
2014	Survey	High-Resolution Video Survey and Biological Sampling of the Northern Area of Closed Area I	Kevin Stokesbury	SMAST	\$438,898	Used in FW26
2014	Survey	Optical Survey of Scallop Resource in the Elephant Trunk Scallop Access Area	Richard Taylor	Arnie's Fisheries	\$895,320	Used in FW26
2013	Survey	A Synoptic Survey of the Sea Scallop Resource in the Mid-Atlantic	David Rudders	VIMS	\$1,592,471	Used in FW25
2013	Survey	Combined High-Resolution Video Survey and Biological Sampling Using a Modified Sled Dredge of the Sea Scallop Resource in Nantucket Lightship Access Area	Kevin Stokesbury	SMAST	\$628,653	Used in FW25
2013	Survey	Optical Survey of Scallop Resource Areas: Closed Area I, Closed Area II HAPC, & Contiguous Areas	Richard Taylor	Arnie's Fisheries	\$995,894	Used in FW25 and OHA2
2013	Survey	High-Resolution Video Survey of the Sea Scallop Resource in Georges Bank Closed Area II (South) and Delmarva	Kevin Stokesbury	SMAST	\$866,849	Used in FW25
2013	Survey	An Assessment of Sea Scallop Abundance and Distribution in the Northeast Georges Bank Area	David Rudders	VIMS	\$347,122	Used in FW25 and OHA2
2013	Survey	An Assessment of Sea Scallop Abundance and Distribution in the	David Rudders	VIMS	\$314,628	Used in FW25

		Access Area of the Nantucket Lightship Closed Area				
2012	Survey	High-resolution Video Survey of the Sea Scallop Resource in the Nantucket Lightship and Closed Area I Access Areas	Kevin Stokesbury	SMAST	\$926,964	Used in FW24
2012	Survey	Optical Survey of Closed Area II Scallop Access Area and the Northern Edge Habitat Area of Particular Concern and Contiguous Areas	Richard Taylor	Arnie's Fisheries	\$1,297,656	Used in FW24 and OHA2
2012	Survey	An Assessment of Sea Scallop Abundance and Distribution in the Hudson Canyon Closed Area and Adjacent Inshore Areas	Dave Rudders	VIMS	\$678,016	Used in FW24
2012	Survey	An Inventory of the Sea Scallop Resource in the Georges Bank Closed Area II and Surrounds	Dave Rudders	VIMS	\$364,498	Used in FW24 and OHA2
2011	Survey	Assessment of Sea Scallop Distribution and Abundance in Federal and Adjacent State Waters of the Gulf of Maine	Kevin Kelly	Maine DMR	\$589,314	Used in FW24
2011	Survey	Scallop Biomass, Bycatch and Substrate Distribution in the Hudson Canyon and Closed Area I Scallop Access Areas--DROP Hudson Canyon	Richard Taylor	Arnie's Fisheries	\$998,000	Used in FW24
2011	Survey	Extension of the SMAST Video Survey in the Western Portion of the Mid-Atlantic	Kevin Stokesbury	SMAST	\$409,820	Used in FW24

2011	Survey	A Descriptive Sea Scallop Survey of the Federal Inshore Areas of the New York Bight Using a Camera Mounted Autonomous Underwater Vehicle	Arthur C. Trembanis	Phoel Associates, Inc.	\$799,600	Presented in 2012
2011	Survey	High-Resolution Video Survey of the Sea Scallop Resource in the HC and Delmarva Area---DROP Delmarva	Kevin Stokesbury	SMAST	\$424,011	Used in FW24
2011	Survey	An Assessment of Sea Scallop Abundance and Distribution in Selected Closed Areas: New York Bight and the Southern New England Area	Dave Rudders	VIMS	\$690,010	Used in FW24
2011	Survey	An Assessment of Sea Scallop Abundance and Distribution in Selected Closed Areas: DelMarVa Closed Area	Dave Rudders	VIMS	\$353,353	Used in FW24
2011	Survey	An Assessment of Sea Scallop Abundance and Distribution in Selected Closed Areas: Georges Bank Closed Area II	Dave Rudders	VIMS	\$353,353	Used in FW24
2011	Survey	An Assessment of Sea Scallop Abundance and Distribution in Selected Closed Areas: Nantucket Lightship Closed Area	Dave Rudders	VIMS	\$353,353	Used in FW24
2010	Survey	Tracking a Large Sea Scallop Recruitment Event with High-Resolution Video Survey in the Gulf of Maine	Kevin D. E. Stokesbury, Ph.D. and Bradley P. Harris	SMAST	\$775,206	Used in FW23
2010	Survey	Scallop, Yellowtail Flounder, and Substrate Distribution in the Closed Area II Scallop Access Area and the	Richard Taylor	Arnie's Fisheries	\$1,706,300	Used in FW22

		Western Side of the Great South Channel				
2010	Survey	High-Resolution Video Survey of the Sea Scallop Resource, Recruitment Patterns, and Habitat of the Hudson Canyon and Delmarva Closed Area	Kevin D. E. Stokesbury and Bradley P. Harris	SMAST	\$1,065,305	Used in FW22
2010	Survey	An Assessment of Sea Scallop Abundance and Distribution in Selected Closed Areas: Hudson Canyon Closed Area	David B. Rudders and William D. DuPaul	VIMS	\$348,855	Used in FW22
2010	Survey	An Assessment of Sea Scallop Abundance and Distribution in Selected Closed Areas: Georges Bank Closed Area 1	David B. Rudders and William D. DuPaul	VIMS	\$428,840	Used in FW22
2016	Survey/Habitat	Impact of Disturbance on Habitat Recovery in Habitat Management Areas on Georges Bank (2 years)	Scott Gallagher, Mike Purcell (WHOI)	WHOI	\$2,665,944	Used in FW28