

SUMMARY OF SCALLOP RSA AWARDS: 2010 – 2019

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1.0 SUMMARY OF AWARDS FROM 2010 – 2019

Table 1 - 2010 - 2019 Scallop RSA Awards grouped by priority: projects funded, estimated value, and percentage of total funding

Priority	Projects Funded	Estimated Value (comp fishing and research)	Percentage of total funding (2010-2019)
Survey	64	\$49,900,866	41.3%
Bycatch	33	\$34,794,258	28.8%
Turtle	11	\$8,573,247	7.1%
Biology	9	\$7,365,070	6.1%
Non-harvest mortality	8	\$6,643,424	5.5%
Ecosystem/ Habitat	7	\$6,412,691	5.3%
Meat Quality	5	\$2,965,334	2.5%
Survey/Habitat	1	\$2,665,944	2.2%
Wind	1	\$1,106,291	0.9%
LPUE	1	\$270,199	0.2%
Grand Total	140	\$120,697,324	100.0%

Table 2 - Number of projects funded by year, from 2010 - 2019 by priority group.

Year	Biology	Bycatch	Ecosystem/ Habitat	LPUE	Meat Quality	Non- harvest mortality	Survey	Survey/Habitat	Turtle	Wind	Grand Total
2010		1					5		2		8
2011	1	2	1				9		1		14
2012		7			1		4		1		13
2013	1	4	2				6		1		14
2014		1	2		1	4	6		1		15
2015	1	4	1			3	6		1		16
2016	3	4			2		4	1	1		15
2017		5	1	1	1	1	7		1		17
2018	3	2					9		1		15
2019		3					8		1	1	13
Grand Total	9	33	7	1	5	8	64	1	11	1	140

Table 3 - Number of projects funded by priority group over last three RSA cycles (2017 - 2019)

Priority	2017	2018	2019	Grand Total
Biology		3		3
Bycatch	5	2	3	10
Ecosystem/ Habitat	1			1
LPUE	1			1
Meat Quality	1			1
Non-harvest mortality	1			1
Survey	7	9	8	24
Turtle	1	1	1	3
Wind			1	1
Grand Total	17	15	13	45

Table 4 - Comparison of research cost by RSA priority (2018 & 2019).

Priority	2018	2019	Grand Total
Biology	\$544,482		\$544,482
Bycatch	\$717,943	\$728,589	\$1,446,532
Survey	\$1,480,825	\$1,680,542	\$3,161,367
Turtle	\$190,599	\$146,104	\$336,703
Wind		\$276,573	\$276,573
Grand Total	\$2,933,849	\$2,831,808	\$5,765,657

Table 5 - Number of RSA Awards by Institution/Organization from 2010 - 2019

Organization	Total
CFF	42
SMAST	35
VIMS	33
Arnie's Fisheries	9
WHOI	4
U. of Delaware	3
ME DMR	4
Northeastern U.	3
NFI	3
CFRF	1
Fisheries Specialists	1
Phoel Associates	1
U Maine	1
Grand Total	140

Table 6 - Summary of 2019 RSA Awards, grouped by priority.

Priority	Projects funded	Pounds Awarded	Research Cost	Estimated Value	% Estimated Value
Survey	8	742696	\$1,680,542	\$7,055,608	61.4%
Bycatch	3	288455	\$728,589	\$2,740,320	23.9%
Turtle	1	61517	\$146,104	\$584,415	5.1%
Wind	1	116452	\$276,573	\$1,106,291	9.6%
Grand Total	13	1209120	\$2,831,808	\$11,486,634	100.0%

Table 7 - List of RSA Funded Projects (2010 - 2019) sorted by project category and year

Year	Primary Project Category	Title	Org.	Funding
2018	Biology	The effect of density on growth, yield and reproduction of the sea scallop, <i>Placopecten magellanicus</i> (2 Year Project)	VIMS	\$1,225,538
2018	Biology	Age-based assessment in the sea scallop <i>Placopecten magellanicus</i> : a pilot study (2 Year Project)	VIMS	\$692,772
2018	Biology	Developing a Spatially & Temporally Explicit Gonadosomatic Index through the Scallop Observer Program: A Pilot Study	WHOI	\$472,696
2016	Biology	Drivers of Dispersal and Retention in Recently Seeded Sea Scallops	CFF	\$1,080,128
2016	Biology	Scallop Mark-Recapture to Estimate Density Dependent Natural Mortality and Growth	VIMS	\$594,284
2016	Biology	Age Structure and Growth Rate in the Sea Scallop (2 years)	VIMS	\$613,673
2015	Biology	Habitat Characterization and Sea Scallop Resource Enhancement Study in a Proposed Habitat Research Area –Year Three	CFF	\$979,680
2013	Biology	Survey of Persistent Scallop Aggregations and an Examination of Their Influence on Recruitment Using the FVCOM Oceanographic Model	SMAST	\$993,844
2011	Biology	Developing Tools to Evaluate Spawning and Fertilization Dynamics of the Giant Sea Scallop Phase II: Field Trials in Experimental Populations	U Maine	\$712,455
2019	Bycatch	Seasonal Survey in the Atlantic Sea Scallop Fishery	CFF	\$1,572,670
2019	Bycatch	Can Cutting Bar Modifications Reduce Bycatch and Increase Catch Efficiency in the Atlantic Sea Scallop Dredge Fishery?	NFI	\$498,293
2019	Bycatch	Piloting a Novel Dredge Type to Reduce Bycatch and Improve Fuel Efficiency in the Southern New England Scallop Fishery	CFRF	\$669,357
2018	Bycatch	Quantifying the Selectivity Characteristics of an Extended Link Apron using a Dredge Cover Net	CFF	\$874,859
2018	Bycatch	Optimizing the Georges Bank Scallop Fishery by Maximizing Meat Yield and Minimizing Bycatch	CFF	\$1,996,912
2017	Bycatch	Optimizing the Georges Bank Scallop Fishery by Maximizing Meat Yield and Minimizing Bycatch	CFF	\$1,974,112

2017	Bycatch	Development of an Extended Link Apron: A Broad Range Tool for Bycatch Reduction	CFF	\$1,044,000
2017	Bycatch	Improving a low profile dredge using computational fluid dynamics and flume tank testing	CFF	\$463,940
2017	Bycatch	Measuring Swimming Capacity of Yellowtail and Windowpane Flounders	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	VIMS	\$1,539,027
2016	Bycatch	Optimizing the Georges Bank Scallop Fishery by Maximizing Meat Yield and Minimizing Bycatch	CFF	\$1,994,292
2016	Bycatch	Development of Ecosystem Friendly Scallop Dredge Bags: Tools for Long-Term Sustainability	CFF	\$1,576,200
2016	Bycatch	A modified flounder sweep for flatfish bycatch reduction in the LAGC scallop fishery	CFF	\$369,520
2016	Bycatch	Scallop Fishery Bycatch Avoidance System 2016	SMAST	\$312,500
2015	Bycatch	Optimizing the Georges Bank Scallop Fishery by Maximizing Meat Yield and Minimizing Bycatch	CFF	\$1,999,832
2015	Bycatch	Determination of the Impacts of Dredge Speed on Bycatch Reduction and Scallop Selectivity Weights of NW Atlantic Sea Scallops via Paired Field Surveys and Laboratory Experiments	CFF	\$950,112
2015	Bycatch	Determining the Impacts of Dredge Bag Modifications on Flatfish Bycatch in the LAGC Scallop Fishery	CFF	\$308,200
2015	Bycatch	Scallop Fishery Bycatch Avoidance System 2015	SMAST	\$732,252
2014	Bycatch	Scallop Bycatch Avoidance System	SMAST	\$678,955
2013	Bycatch	Preventing Bycatch of Yellowtail Flounder in the Scallop Fishery	National Fisheries Institute	\$338,931
2013	Bycatch	Testing of Scallop Dredge Bag Design Changes For Flatfish Bycatch Reduction	CFF	\$995,712
2013	Bycatch	Scallop Fishery Bycatch Avoidance System	SMAST	\$637,417
2013	Bycatch	Seasonal Bycatch Survey of the Georges Bank Scallop Fishery	CFF	\$2,522,307
2012	Bycatch	Bycatch Characterization in the Southern New England Sea Scallop Fishery	Fisheries Specialists	\$584,375
2012	Bycatch	Evaluating the Condition and Discard Mortality of Skates Following Capture and Handling in the Sea Scallop Dredge Fishery	VIMS	\$1,092,642
2012	Bycatch	Design and Test of a Hydrodynamic Scallop Dredge to Reduce Bycatch, Minimize Bottom Impact and Improve	SMAST	\$836,854

		Fuel Efficiency		
2012	Bycatch	Testing of Scallop Dredge Bag Design Changes For Flatfish Bycatch Reduction	CFF	\$888,132
2012	Bycatch	Real-Time Electronic Bycatch Reporting Pilot Project	CFF	\$711,720
2012	Bycatch	Expansion of the Yellowtail Bycatch System	SMAST	\$426,729
2012	Bycatch	Seasonal Bycatch Survey of the George's Bank Scallop Fishery	CFF	\$2,538,554
2011	Bycatch	Testing of a low profile scallop dredge for bycatch reduction	CFF	\$836,800
2011	Bycatch	Optimizing the George's Bank Scallop Fishery by Maximizing Meat Yield and Minimizing Bycatch	CFF	\$1,847,700
2010	Bycatch	Real-Time Electronic Bycatch Reporting Pilot Project	CFF	\$484,250
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	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	Northeastern University	\$801,465
2014	Ecosystem/ Habitat	Habitat Characterization and Sea Scallop Resource Enhancement Study in Proposed Habitat Research Area-Year 2	CFF	\$770,852
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	Northeastern University	\$919,277
2013	Ecosystem/ Habitat	Identifying Source Sink Dynamics in Sea Scallop Populations of the Northwest Atlantic	Northeastern University	\$1,107,448
2013	Ecosystem/ Habitat	Habitat Characterization and Sea Scallop Resource Enhancement Study in a Proposed Habitat Research Area	CFF	\$806,436
2011	Ecosystem/ Habitat	Effects of Mobile Fishing Gear on Geological and Biological Structure: a Georges Bank Closed Versus Open Area Comparison	SMAST	\$650,953
2017	LPUE	Factors Influencing Scallop Landings per Unit Effort (LPUE)	SMAST	\$270,199
2017	Meat Quality	Monitoring Gray Meat Infestations in Atlantic Sea Scallops in a Closed Area on Georges Bank	SMAST	\$428,160
2016	Meat Quality	Transmission of Apicomplexan Infection and Development of Gray Meat in Atlantic Sea Scallops (2	SMAST	\$639,786

		years)		
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)	VIMS	\$945,422
2014	Meat Quality	Tracking the Occurrence of grey meat in Atlantic Sea Scallops	SMAST	\$572,123
2012	Meat Quality	What Causes Gray Meat in the Atlantic Sea Scallop Placopecten Magellanicus in Georges Bank Closed Areas?	SMAST	\$379,843
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	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	VIMS	\$693,200
2015	Non-harvest mortality	Incidental Mortality Estimates of Sea Scallops from AUV based BACI Surveys	University of Delaware	\$508,545
2015	Non-harvest mortality	Estimating Incidental Mortality in the Sea Scallop Fishery	CFF	\$429,755
2014	Non-harvest mortality	Incidental Mortality Estimates of Sea Scallops from AUV based BACI Surveys	University of Delaware	\$1,147,794
2014	Non-harvest mortality	Estimating Incidental Mortality in the Sea Scallop Fishery	CFF	\$306,565
2014	Non-harvest mortality	Determining Incidental Discard Mortality of Atlantic Sea Scallops, Placopecten magellanicus	National Fisheries Institute	\$366,588
2014	Non-harvest mortality	Discard Mortality of Sea Scallops Following Capture and Handling in the Sea Scallops Dredge Fishery	VIMS	\$963,981
2019	Survey	An Optical Assessment of Sea Scallop Abundance, Distribution and Growth in the Nantucket Lightship Scallop Management Area	CFF	\$760,087
2019	Survey	An Optical Assessment of Sea Scallop Abundance and Distribution in the Southern Closed Area II Scallop Management Area	CFF	\$1,114,095
2019	Survey	Improving Automated Detection of Scallops and Flounder in Optical Surveys with Stereo Detection Methods	CFF	\$803,936

2019	Survey	Drop Camera Surveys Examining the Scallop Population of the Mid-Atlantic and Assessment of Automated Scallop Count and Measurement Algorithm	SMAST	\$1,008,205
2019	Survey	High-Resolution Drop Camera Surveys to Track Scallop Aggregations in Closed Area I Access Area, Nantucket Lightship, and Great South Channel	SMAST	\$435,190
2019	Survey	A Cooperative High Precision Dredge Survey to Assess the Mid-Atlantic Sea Scallop Resource Area in 2019 and 2020	VIMS	\$1,754,209
2019	Survey	In Situ High-Definition Camera Monitoring to Evaluate Catch Efficiency and Performance of a Survey Dredge	VIMS	\$844,936
2019	Survey	Assessment of Sea Scallop Distribution and Abundance in the Northern Gulf of Maine Management Area	ME DMR	\$334,950
2018	Survey	An Optical Assessment of Sea Scallop Abundance, Distribution, and Growth in the Nantucket Lightship and southern part of Georges Bank	CFF	\$883,405
2018	Survey	High-resolution drop camera surveys to track scallop aggregations in Closed Area I and Great South Channel	SMAST	\$353,073
2018	Survey	High-resolution drop camera survey examining the scallop population and habitat in select portions of the Gulf of Maine	SMAST	\$513,680
2018	Survey	High resolution drop camera survey examining sea stars dynamics in extremely dense scallop beds of the Nantucket Lightship	SMAST	\$402,027
2018	Survey	An assessment of sea scallop abundance and distribution in the Nantucket Lightship (2 Year Project)	VIMS	\$628,516
2018	Survey	An assessment of sea scallop abundance and distribution in Closed Area I and Closed Area II (2 Year Project)	VIMS	\$758,266
2018	Survey	Understanding Dredge Performance for a Lined versus Unlined NMFS Sea Scallop Survey Dredge	VIMS	\$160,098
2018	Survey	High Intensity Optical Survey of the Mid-Atlantic Bight Rotational Closure Areas: Elephant Trunk and Hudson Canyon	WHOI	\$1,358,540
2018	Survey	High Intensity Optical Survey of Closed Area II and northern part of Georges Bank	WHOI	\$1,203,468
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	CFF	\$742,000
2017	Survey	High-resolution Drop Camera Survey Examining the Scallop Population and Habitat in the Closed Area I Access Area and Sliver	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	SMAST	\$306,715
2017	Survey	2017 BROADSCALE Drop Camera Survey of the US East Coast Sea Scallop Resource	SMAST	\$906,217
2017	Survey	A Cooperative High Precision Dredge Survey to Assess the Mid-Atlantic Sea Scallop Resource Area in 2018	VIMS	\$893,114
2017	Survey	An Assessment of Sea Scallop Abundance and Distribution in Georges Bank Closed Area II and the Southern Extension Closure	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	VIMS	\$1,260,510
2016	Survey	Optical Survey of the Scallop Resource in the Elephant Trunk Scallop Access Area	Arnie's Fisheries	\$586,540
2016	Survey	A Cooperative High Precision Dredge Survey to Assess the Mid-Atlantic Sea Scallop Resource Area (2-years)	VIMS	\$1,979,346
2016	Survey	An Assessment of Sea Scallop Abundance and Distribution in the Nantucket Lightship Closed Area and Surrounds (2 years)	VIMS	\$891,945
2016	Survey	An Assessment of Sea Scallop Abundance and Distribution in Georges Bank Closed Area II and Surrounds	VIMS	\$448,215
2015	Survey	Optical Survey of the Resource in the Elephant Trunk Scallop Access Area	Arnie's Fisheries	\$629,328
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	Arnie's Fisheries	\$808,560
2015	Survey	BROADSCALE Video Survey of Georges Bank Scallop Open Areas	SMAST	\$1,994,248
2015	Survey	Development and Implementation of a High Precision Resource Wide Dredge Survey of the Mid-Atlantic Scallop Resource Area	VIMS	\$966,472
2015	Survey	Assessment of Sea Scallop Distribution in Federal and Adjacent State Waters of the Gulf of Maine	Maine DMR	\$372,344
2015	Survey	BROADSCALE Video Survey of the Open Areas of George's Bank	SMAST	\$1,368,126
2014	Survey	Assessment of Sea Scallop Distribution in Federal and Adjacent State Waters of the Gulf of Maine	Maine DMR	\$558,515
2014	Survey	An Assessment of Sea Scallop Abundance and Distribution in the Long Island/Southern New England	VIMS	\$456,346

		Area		
2014	Survey	Broadscale Video Survey of the Open Areas of George's Bank	SMAST	\$1,368,126
2014	Survey	Optical Survey of Recent Scallop Settlement Areas Along the Southern New England Continental Shelf	Arnie's Fisheries	\$894,360
2014	Survey	High-Resolution Video Survey and Biological Sampling of the Northern Area of Closed Area I	SMAST	\$438,898
2014	Survey	Optical Survey of Scallop Resource in the Elephant Trunk Scallop Access Area	Arnie's Fisheries	\$895,320
2013	Survey	A Synoptic Survey of the Sea Scallop Resource in the Mid-Atlantic	VIMS	\$1,592,471
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	SMAST	\$628,653
2013	Survey	Optical Survey of Scallop Resource Areas: Closed Area I, Closed Area II HAPC, & Contiguous Areas	Arnie's Fisheries	\$995,894
2013	Survey	High-Resolution Video Survey of the Sea Scallop Resource in Georges Bank Closed Area II (South) and Delmarva	SMAST	\$866,849
2013	Survey	An Assessment of Sea Scallop Abundance and Distribution in the Northeast Georges Bank Area	VIMS	\$347,122
2013	Survey	An Assessment of Sea Scallop Abundance and Distribution in the Access Area of the Nantucket Lightship Closed Area	VIMS	\$314,628
2012	Survey	High-resolution Video Survey of the Sea Scallop Resource in the Nantucket Lightship and Closed Area I Access Areas	SMAST	\$926,964
2012	Survey	Optical Survey of Closed Area II Scallop Access Area and the Northern Edge Habitat Area of Particular Concern and Contiguous Areas	Arnie's Fisheries	\$1,297,656
2012	Survey	An Assessment of Sea Scallop Abundance and Distribution in the Hudson Canyon Closed Area and Adjacent Inshore Areas	VIMS	\$678,016
2012	Survey	An Inventory of the Sea Scallop Resource in the Georges Bank Closed Area II and Surrounds	VIMS	\$364,498
2011	Survey	Assessment of Sea Scallop Distribution and Abundance in Federal and Adjacent State Waters of the Gulf of Maine	Maine DMR	\$589,314
2011	Survey	Scallop Biomass, Bycatch and Substrate Distribution in the Hudson Canyon and Closed Area I Scallop Access Areas--DROP Hudson Canyon	Arnie's Fisheries	\$998,000

2011	Survey	Extension of the SMAST Video Survey in the Western Portion of the Mid-Atlantic	SMAST	\$409,820
2011	Survey	A Descriptive Sea Scallop Survey of the Federal Inshore Areas of the New York Bight Using a Camera Mounted Autonomous Underwater Vehicle	Phoel Associates, Inc.	\$799,600
2011	Survey	High-Resolution Video Survey of the Sea Scallop Resource in the HC and Delmarva Area-----DROP Delmarva	SMAST	\$424,011
2011	Survey	An Assessment of Sea Scallop Abundance and Distribution in Selected Closed Areas: New York Bight and the Southern New England Area	VIMS	\$690,010
2011	Survey	An Assessment of Sea Scallop Abundance and Distribution in Selected Closed Areas: DelMarVa Closed Area	VIMS	\$353,353
2011	Survey	An Assessment of Sea Scallop Abundance and Distribution in Selected Closed Areas: Georges Bank Closed Area II	VIMS	\$353,353
2011	Survey	An Assessment of Sea Scallop Abundance and Distribution in Selected Closed Areas: Nantucket Lightship Closed Area	VIMS	\$353,353
2010	Survey	Tracking a Large Sea Scallop Recruitment Event with High-Resolution Video Survey in the Gulf of Maine	SMAST	\$775,206
2010	Survey	Scallop, Yellowtail Flounder, and Substrate Distribution in the Closed Area II Scallop Access Area and the Western Side of the Great South Channel	Arnie's Fisheries	\$1,706,300
2010	Survey	High-Resolution Video Survey of the Sea Scallop Resource, Recruitment Patterns, and Habitat of the Hudson Canyon and Delmarva Closed Area	SMAST	\$1,065,305
2010	Survey	An Assessment of Sea Scallop Abundance and Distribution in Selected Closed Areas: Hudson Canyon Closed Area	VIMS	\$348,855
2010	Survey	An Assessment of Sea Scallop Abundance and Distribution in Selected Closed Areas: Georges Bank Closed Area 1	VIMS	\$428,840
2016	Survey/ Habitat	Impact of Disturbance on Habitat Recovery in Habitat Management Areas on Georges Bank (2 years)	WHOI	\$2,665,944
2019	Turtle	Understanding the Impacts of the Sea Scallop Fishery on Loggerhead Sea Turtles	CFF	\$584,415
2018	Turtle	Understanding the Impacts of the Atlantic Sea Scallop Fishery on Loggerhead Sea Turtles	CFF	\$762,395
2017	Turtle	Understanding the Impacts of the Atlantic Sea Scallop Fishery on Loggerhead Sea Turtles	CFF	\$899,000

2016	Turtle	Understanding Impacts of the Sea Scallop Fishery on Loggerhead Sea Turtles Through Satellite Tagging	CFF	\$892,059
2015	Turtle	Understanding Impacts of the Sea Scallop Fishery on Loggerhead Sea Turtles through Satellite Tagging	CFF	\$797,040
2014	Turtle	Understanding Impacts of the Sea Scallop Fishery on Loggerhead Sea Turtles	CFF	\$919,360
2013	Turtle	Understanding Impacts of the Sea Scallop Fishery on Loggerhead Sea Turtles through Satellite Tagging	CFF	\$404,592
2012	Turtle	Understanding Impacts of the Sea Scallop Fishery on Loggerhead Sea Turtles Through Satellite Tagging	CFF	\$798,240
2011	Turtle	Understanding Impacts of the Sea Scallop Fishery on Loggerheads through Satellite Tagging	CFF	\$734,000
2010	Turtle	Loggerhead Sea Turtle Ecology on the Sea Scallop Grounds	CFF	\$863,962
2010	Turtle	Testing of Modifications to the Cfarm Turtle Excluder Dredge for Bycatch Reduction	CFF	\$918,184
2019	Wind	Assessing Potential Impacts of Offshore Wind Facilities on Regional Sea Scallop Larva and Early Juvenile Transport	SMAST	\$1,106,291