

## A. COVER PAGE

<b>Project Title:</b> FY22-26: Managing 100% Lobster Harvester Reporting in Maine	
<b>Grant Number:</b> NA22NMF4740109-T1-01	<b>Project/Grant Period:</b> 05/01/2023 - 04/30/2028
<b>Reporting Period:</b> 05/01/2023 - 10/31/2023	<b>Requested Budget Period:</b> 05/01/2023 - 04/30/2028
<b>Report Term Frequency:</b> Semi-Annual	<b>Date Submitted:</b> 05/20/2024
<b>Program Director/Principal Investigator Information:</b> ROB WATTS , BS  <b>Phone Number:</b> 2073507154 <b>Email:</b> rob.watts@maine.gov	<b>Recipient Organization:</b> DEPARTMENT OF MARINE RESOURCES MAINE 21 STATE HOUSE STA AUGUSTA, ME 043330021  <b>DUNS:</b> <b>UEI:</b> KQWCK42PT545 <b>EIN:</b> 01-6000001  <b>RECIPIENT ID:</b>
<b>Change of Contact PD/PI:</b> NA	
<b>Administrative Official:</b> AMY SWAN 194 MCKOWN PT SHS 21 WEST BOOTHBAY HARBOR, ME 04575  <b>Phone number:</b> 2076206474 <b>Email:</b> amy.swan@maine.gov	<b>Signing Official:</b> AMY SWAN 194 MCKOWN PT SHS 21 WEST BOOTHBAY HARBOR, ME 04575  <b>Phone number:</b> 2076206474 <b>Email:</b> amy.swan@maine.gov
<b>Human Subjects:</b> No	<b>Vertebrate Animals:</b> No
<b>hESC:</b> No	<b>Inventions/Patents:</b> No

## B. ACCOMPLISHMENTS

### B.1 WHAT ARE THE MAJOR GOALS OF THE PROJECT?

The objective of this project is to comply with Addendum XXVI ([http://www.asmfc.org/uploads/file/5a9438ccAmLobsterAddXXVI\\_JonahCrabAddIII\\_Feb2018.pdf](http://www.asmfc.org/uploads/file/5a9438ccAmLobsterAddXXVI_JonahCrabAddIII_Feb2018.pdf)) of ASMFC's (Atlantic States Marine Fisheries Commission) American lobster Fisheries Management Plan (FMP) which requires MEDMR increase the percentage of trip level landings information MEDMR collects from commercial lobster harvesters from 10% (approximately 600 harvesters) to 100% (approximately 6,000 harvesters). Addendum XXVI requires 100% reporting (electronic reporting is recommended but not mandatory) by January 2024 in addition to other new required fields that become mandatory in January 2021. Requiring the MEDMR to implement 100% reporting will caused MEDMR to increase landings and licensing staff by a total of 9 that were non-existent positions to effectively manage, monitor and audit what will be a 538% increase in the number of trip level reports the MEDMR receives on an annual basis.

Prior to COVID-19 and the impacts it has had on budgets, MEDMR was prepared to move up the timeframe for 100% electronic lobster harvester reporting up to as early as 2022 to track and document the 50% reduction in vertical lines that were proposed to be required. The MEDMR implemented 100% electronic lobster reporting in January 2023. The MEDMR self-funded the creation of a new offline mobile application for both iOS® and Android® platforms through dedicated technology funds. This new harvester reporting application was released to select harvesters in June 2021. This program has been built to accept reports from all fisheries and meets NMFS electronic reporting requirements. This new program incorporates dynamic entry pages and is completely table driven allowing the entry pages to display more concise field descriptions based on species and gears fished. There will be built in data validations, favorites and basic end user analytics. The MEDMR released this new offline reporting application to all industry members in November 2021. The primary tasks will be electronic reporting software training, regulation compliance, data audits, data entry and general outreach. Staff will also focus on harvester outreach to help industry understand the importance of the accurate and timely reporting. MEDMR has also contracted with Bluefin Data to all the application to communicate with a third-party tracker that will allow the harvester to automatically fill in up to 40% of the required fields (location and sea time for example). Electronic reporting will be required for commercial lobster harvesters and heavily pushed for those that still report other fisheries on paper. The focus on expansion of electronic reporting will require the MEDMR to spend a significant amount of time on outreach, explaining the reporting system to harvesters and troubleshooting any issues that might arise.

#### B.1.a Have the major goals changed since the initial competing award or previous report?

No

### B.2 WHAT WAS ACCOMPLISHED UNDER THESE GOALS?

File Uploaded : Accomplishments.pdf

### B.3 COMPETITIVE REVISIONS/ADMINISTRATIVE SUPPLEMENTS

For this reporting period, is there one or more Revision/Supplement associated with this award for which reporting is required?

No

### B.4 WHAT OPPORTUNITIES FOR TRAINING AND PROFESSIONAL DEVELOPMENT HAS THE PROJECT PROVIDED?

File Uploaded : Professional Development.pdf

### B.5 HOW HAVE THE RESULTS BEEN DISSEMINATED TO COMMUNITIES OF INTEREST?

No results have been collected from 100% harvester reporting that can be disseminated to the public yet. We do disseminate currently collected data through data requests, web publications (<https://www.maine.gov/dmr/fisheries/commercial/landings-program/landings-data>) and sharing with other fisheries collection (ACCSP and NOAA) agencies. MEDMR created a web portal

that provides any end user the ability to pull any non-confidential data by species and port landed.

**B.6 WHAT DO YOU PLAN TO DO DURING THE NEXT REPORTING PERIOD TO ACCOMPLISH THE GOALS?**

The MEDMR will continue to work on outreach with industry to help those required to report as part of 100% harvester reporting. We will continue outreach with industry to try and shift harvesters still reporting via paper log to an electronic option. We will also continue to build spatial and other data audits to audit these data on a bi-weekly to monthly basis.

Since the last update in May, all positions created under the previous grant have been filled and are in various stages of training. The MEDMR continues ramping up its outreach for the reporting application and try to get as many harvesters from all fisheries using the application which has been tasked to the new Marine Resource Scientist I's (Neila Cole and Sophie Swetz), two Marine Resource Specialist II (Emily Patrick and Zachary May) and two Office Associate II's (Lisa Schinhofen and Michelle Angelico) and Cynthia Russell was moved into the Office Specialist I Supervisor position included in the grant cost summary. All new positions are being fully funded by this grant, ARPA funds or a separate NOAA grant, but all are necessary to ensure that the Maine DMR are able to meet their obligations to implement 100% lobster harvester reporting.

While not funded, the VESL application has been utilized by harvesters and so far has been well received. This application was released to all state harvesters in November 2021 and received GARFO approval in November 2021. The VESL application has been integral in allowing both state and federal harvesters a user-friendly option to meet their electronic reporting requirements.

Mandatory electronic reporting in the MEDMR lobster fishery was implemented on January 1, 2023. Since late fall MEDMR staff have been inundated with requests to set harvesters up with one of our two methods of electronic reporting (Maine LEEDS or VESL). During this reporting period staff set up and attended six regional "Electronic Reporting Set Up" meetings. These meetings took place in Kennebunk, Brunswick, Rockland, Ellsworth, Swans Island and East Machias. All meeting were well attended and allowed users the ability to meet with Landings Program staff 1 on 1. A call group was created that includes seven current employees that are available from 8 to 4:30 Monday through Friday to assist industry with any reporting related questions. The DMR Laboratory in West Boothbay Harbor also can be utilized during normal working hours for these sessions as requested.

As of October 31st, the MEDMR has received close to 200,000 lobster trip reports. Of these reports, 78,761 (35%) were entered through MEDMR's VESL program and an additional 129,976 (65%). We anticipate that more people will utilize VESL once NOAA requires 100% lobster reporting in April, 2024 as there are approximately 1,200 harvesters currently required to report to MEDMR that will be required to report to NOAA.

## B.4 (Professional Development.pdf)

The positions that were created from this project will range from entry level to possible career positions. All employees will be encouraged to obtain training for software utilized in the program (R, Arc GIS, MS Office to name a few).

**C. PRODUCTS**

**C.1 PUBLICATIONS**

Are there publications or manuscripts accepted for publication in a journal or other publication (e.g., book, one-time publication, monograph) during the reporting period resulting directly from this award?

Yes

**Publications Reported for this Reporting Period**

Public Access Compliance	Citation
N/A	Waller, J., Bartlett, J., Bates, E., Bray, H., Brown, M., Cieri, M., ... & Wilson, C. (2023). Reflecting on the recent history of coastal Maine fisheries and marine resource monitoring: the value of collaborative research, changing ecosystems, and thoughts on preparing for the future. ICES Journal of Marine Science, 80(8), 2074-2086.

**C.2 WEBSITE(S) OR OTHER INTERNET SITE(S)**

NOTHING TO REPORT

**C.3 TECHNOLOGIES OR TECHNIQUES**

NOTHING TO REPORT

**C.4 INVENTIONS, PATENT APPLICATIONS, AND/OR LICENSES**

Have inventions, patent applications and/or licenses resulted from the award during the reporting period? No

If yes, has this information been previously provided to the PHS or to the official responsible for patent matters at the grantee organization? No

**C.5 OTHER PRODUCTS AND RESOURCE SHARING**

Category	Explanation
Software	Bluefin Data LLC's VESL harvester reporting application.

### D. PARTICIPANTS

#### D.1 WHAT INDIVIDUALS HAVE WORKED ON THE PROJECT?

Commons ID	S/K	Name	Degree(s)	Role	Cal	Aca	Sum	Foreign Org	Country	SS
ROB.WATTS	Y	Watts, Rob	BS	PD/PI	12.0	0.0	0.0			NA
JESICA.WALLER	Y	Waller, Jessica Davis	BS,MS	PD/PI	12.0	0.0	0.0			NA
ROB.WATTS	Y	Watts, Rob	BS	PD/PI	12.0	0.0	0.0			NA
	N	Schinhofen, Lisa		Office support position	12.0	0.0	0.0			NA
	Y	Swetz, Sophie	BS, MS	Co-Investigator	12.0	0.0	0.0			NA
	N	White, Lessie	BS, MS	Backup science staff	3.0	0.0	0.0			NA
	Y	Cole, Neila	BS MS	Co-Investigator	12.0	0.0	0.0			NA
	Y	Patrick, Emily	BS	Co-Investigator	12.0	0.0	0.0			NA
	N	Angelico, Michelle		Office support staff	12.0	0.0	0.0			NA
	Y	May, Zachary	BS, MS	Co-Investigator	12.0	0.0	0.0			NA
	N	Plante, Lorry		Office support staff	12.0	0.0	0.0			NA
	Y	DeCosta, Marissa	BS, MS	Co-Investigator	12.0	0.0	0.0			NA
	N	Russell, Cynthia		Office support staff	12.0	0.0	0.0			NA

<p><b>Glossary of acronyms:</b>                  S/K - Senior/Key                  Cal - Person Months (Calendar)                  Aca - Person Months (Academic)                  Sum - Person Months (Summer)</p>	<p>Foreign Org - Foreign Organization Affiliation                  SS - Supplement Support                  RS - Reentry Supplement                  DS - Diversity Supplement                  OT - Other                  NA - Not Applicable</p>
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#### D.2 PERSONNEL UPDATES

##### D.2.a Level of Effort

Will there be, in the next budget period, either (1) a reduction of 25% or more in the level of effort from what was approved by the agency for the PD/PI(s) or other senior/key personnel designated in the Notice of Award, or (2) a reduction in the level of effort below the minimum amount of effort required by the Notice of Award?

No

##### D.2.b New Senior/Key Personnel

**Are there, or will there be, new senior/key personnel?**

No

**D.2.c Changes in Other Support**

**Has there been a change in the active other support of senior/key personnel since the last reporting period?**

No

**D.2.d New Other Significant Contributors**

**Are there, or will there be, new other significant contributors?**

No

**D.2.e Multi-PI (MPI) Leadership Plan**

**Will there be a change in the MPI Leadership Plan for the next budget period?**

No

**E. IMPACT****E.1 WHAT IS THE IMPACT ON THE DEVELOPMENT OF HUMAN RESOURCES?**

Not Applicable

**E.2 WHAT IS THE IMPACT ON PHYSICAL, INSTITUTIONAL, OR INFORMATION RESOURCES THAT FORM INFRASTRUCTURE?**

NOTHING TO REPORT

**E.3 WHAT IS THE IMPACT ON TECHNOLOGY TRANSFER?**

Not Applicable

**E.4 WHAT DOLLAR AMOUNT OF THE AWARD'S BUDGET IS BEING SPENT IN FOREIGN COUNTRY(IES)?**

NOTHING TO REPORT

**F. CHANGES****F.1 CHANGES IN APPROACH AND REASONS FOR CHANGE**

Not Applicable

**F.2 ACTUAL OR ANTICIPATED CHALLENGES OR DELAYS AND ACTIONS OR PLANS TO RESOLVE THEM**

NOTHING TO REPORT

**F.3 SIGNIFICANT CHANGES TO HUMAN SUBJECTS, VERTEBRATE ANIMALS, BIOHAZARDS, AND/OR SELECT AGENTS****F.3.a Human Subject**

No Change

**F.3.b Vertebrate Animals**

No Change

**F.3.c Biohazards**

No Change

**F.3.d Select Agents**

No Change

**G. SPECIAL REPORTING REQUIREMENTS SPECIAL REPORTING REQUIREMENTS**

**G.1 SPECIAL NOTICE OF AWARD TERMS AND FUNDING OPPORTUNITIES ANNOUNCEMENT REPORTING REQUIREMENTS**

NOTHING TO REPORT

**G.2 RESPONSIBLE CONDUCT OF RESEARCH**

Not Applicable

**G.3 MENTOR'S REPORT OR SPONSOR COMMENTS**

Not Applicable

**G.4 HUMAN SUBJECTS**

**G.4.a Does the project involve human subjects?**

No

**G.4.b Inclusion Enrollment Data**

NOTHING TO REPORT

**G.4.c ClinicalTrials.gov**

Does this project include one or more applicable clinical trials that must be registered in ClinicalTrials.gov under FDAAA?

**G.5 HUMAN SUBJECTS EDUCATION REQUIREMENT**

Are there personnel on this project who are newly involved in the design or conduct of human subjects research?

**G.6 HUMAN EMBRYONIC STEM CELLS (HESCS)**

Does this project involve human embryonic stem cells (only hESC lines listed as approved in the NIH Registry may be used in NIH funded research)?

No

**G.7 VERTEBRATE ANIMALS**

Does this project involve vertebrate animals?

No

**G.8 PROJECT/PERFORMANCE SITES**

Organization Name	UEI	Congressional District	Address
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<b>Primary:</b> DEPARTMENT OF MARINE RESOURCES MAINE	KQWCK42PT545	ME-01	21 STATE HOUSE STA AUGUSTA, ME 043330021
<b>G.9 FOREIGN COMPONENT</b>			
No foreign component			
<b>G.10 ESTIMATED UNOBLIGATED BALANCE</b>			
<b>G.10.a</b> Is it anticipated that an estimated unobligated balance (including prior year carryover) will be greater than 25% of the current year's total approved budget?			
No			
<b>G.11 PROGRAM INCOME</b>			
Is program income anticipated during the next budget period? No			
<b>G.12 F&amp;A COSTS</b>			
Is there a change in performance sites that will affect F&A costs?			
No			

**RESEARCH & RELATED BUDGET - SECTION A & B, BUDGET PERIOD 1**

UEI\*: KQWCK42PT545

Budget Type\*:  Project  Subaward/Consortium

Enter name of Organization: DEPARTMENT OF MARINE RESOURCES MAINE

Start Date\*: 05-01-2023

End Date\*: 04-30-2028

Budget Period: 1

**A. Senior/Key Person**

Prefix	First Name*	Middle Name	Last Name*	Suffix	Project Role*	Base Salary (\$)	Calendar Months	Academic Months	Summer Months	Requested Salary (\$)*	Fringe Benefits (\$)*	Funds Requested (\$)*
Total Funds Requested for all Senior Key Persons in the attached file												
Additional Senior Key Persons: File Name:											Total Senior/Key Person	

**B. Other Personnel**

Number of Personnel*	Project Role*	Calendar Months	Academic Months	Summer Months	Requested Salary (\$)*	Fringe Benefits*	Funds Requested (\$)*
	Post Doctoral Associates						
	Graduate Students						
	Undergraduate Students						
	Secretarial/Clerical						
4	Science Staff	6.0	0.0	0.0	145,145.32	90,155.14	235,300.46
<b>4</b>	<b>Total Number Other Personnel</b>					<b>Total Other Personnel</b>	<b>235,300.46</b>
					<b>Total Salary, Wages and Fringe Benefits (A+B)</b>		<b>235,300.46</b>

RESEARCH & RELATED Budget {A-B} (Funds Requested)

## RESEARCH & RELATED BUDGET - SECTION C, D, & E, BUDGET PERIOD 1

UEI\*: KQWCK42PT545

Budget Type\*:  Project  Subaward/Consortium

Enter name of Organization: DEPARTMENT OF MARINE RESOURCES MAINE

Start Date\*: 05-01-2023

End Date\*: 04-30-2028

Budget Period: 1

<b>C. Equipment Description</b>	
List items and dollar amount for each item exceeding \$5,000	
<b>Equipment Item</b>	<b>Funds Requested (\$)*</b>
<b>Total funds requested for all equipment listed in the attached file</b>	
<b>Total Equipment</b>	<b>0.00</b>
<b>Additional Equipment:</b> File Name:	

	Funds Requested (\$)*
<b>D. Travel</b>	
1. Domestic Travel Costs ( Incl. Canada, Mexico, and U.S. Possessions)	2,589.55
2. Foreign Travel Costs	0.00
<b>Total Travel Cost</b>	<b>2,589.55</b>

	Funds Requested (\$)*
<b>E. Participant/Trainee Support Costs</b>	
1. Tuition/Fees/Health Insurance	0.00
2. Stipends	0.00
3. Travel	0.00
4. Subsistence	0.00
5. Other:	
<b>0 Number of Participants/Trainees</b>	<b>Total Participant Trainee Support Costs</b>
	<b>0.00</b>

RESEARCH & RELATED Budget (C-E) (Funds Requested)

## RESEARCH & RELATED BUDGET - SECTIONS F-K, BUDGET PERIOD 1

UEI\*: KQWCK42PT545

Budget Type\*:  Project  Subaward/Consortium

Enter name of Organization: DEPARTMENT OF MARINE RESOURCES MAINE

Start Date\*: 05-01-2023

End Date\*: 04-30-2028

Budget Period: 1

F. Other Direct Costs	Funds Requested (\$)*
1. Materials and Supplies	13.99
2. Publication Costs	0.00
3. Consultant Services	0.00
4. ADP/Computer Services	219.69
5. Subawards/Consortium/Contractual Costs	0.00
6. Equipment or Facility Rental/User Fees	0.00
7. Alterations and Renovations	0.00
8. Cell phone service	993.15
9.	0.00
10.	0.00
11.	0.00
12.	0.00
13.	0.00
14.	0.00
15.	0.00
16.	0.00
17.	0.00
<b>Total Other Direct Costs</b>	<b>1,226.83</b>

G. Direct Costs	Funds Requested (\$)*
<b>Total Direct Costs (A thru F)</b>	<b>239,116.84</b>

H. Indirect Costs			
Indirect Cost Type	Indirect Cost Rate (%)	Indirect Cost Base (\$)	Funds Requested (\$)*
1. INDIRECT	30.0	239,116.84	71,735.05
<b>Total Indirect Costs</b>			<b>71,735.05</b>
<b>Cognizant Federal Agency</b>		MAINE DEPARTMENT OF MARINE RESOURCES AMY SWAN	
(Agency Name, POC Name, and POC Phone Number)		207-624-6550	

I. Total Direct and Indirect Costs	Funds Requested (\$)*
<b>Total Direct and Indirect Institutional Costs (G + H)</b>	<b>310,851.89</b>

J. Fee	Funds Requested (\$)*
	<b>0.00</b>

K. Total Costs and Fee	Funds Requested (\$)*
	<b>310,851.89</b>

L. Budget Justification*	File Name:

RESEARCH & RELATED Budget (F-K) (Funds Requested)

## J. MISCELLANEOUS DOCUMENTS

### J.1 Other Documents

Please upload any additional attachments needed for your award that do not have a specific upload field in another section of the RPPR.

NA22NMF4740109 - DMR 4326 2023MLHR				
Expense Report from 5/1/2023 through 10/31/2023				
<b>Payroll:</b>				
4326	13A	32	5,589.92	LIMIT PER HOLIDAY PAY
4326	13A	32	3,222.76	LIMIT PER SICK PAY
4326	13A	32	3,653.87	LIMIT PER VACATION PAY
4326	13A	32	127,943.91	LIMITED PERIOD REGULAR
4326	13A	36	4,734.86	RECRUIT/RETENTION STIPEND
4326	13A	39	1,138.80	DENTAL INSURANCE
4326	13A	39	2,517.00	EMPLOYEE HLTH SVS/WORKERS COMP
4326	13A	39	1,630.47	EMPLOYER GROUP LIFE
4326	13A	39	2,041.49	EMPLOYER MEDICARE COST
4326	13A	39	12,586.54	EMPLOYER RETIREE HEALTH
4326	13A	39	6,704.84	EMPLOYER RETIREMENT COSTS
4326	13A	39	-	INTEREST DUE EMPLOYEES
4326	13A	39	39,165.70	HEALTH INSURANCE
4326	13A	39	24,370.30	RETIRE UNFUNDED LIABILTY-REG
<b>Payroll Totals:</b>			<b>235,300.46</b>	
<b>Travel:</b>				
4326	13A	42	147.20	AUTO MILEAGE- IN STATE
4326	13A	42	44.00	MEALS-EXTENDED WORKDAY
4326	13A	46	325.00	RENT STATE MGMT/TRNG ROOM
4326	13A	46	2,073.35	RENT OF STATE VEHICLE
<b>Travel Total:</b>			<b>2,589.55</b>	
<b>Supplies:</b>				
4326	13A	56	13.99	OFFICE & OTHER SUPPLIES
4326	13A	56		OFFICE SUPPLIES
4326	13A	56		ERGONOMIC OFFICE EQUIP
<b>Supplies Total</b>			<b>13.99</b>	
<b>Other:</b>				
4326	13A	49		PRINTING AND BINDING
4326	13A	49		FRIEGHT
4326	13A	53	219.69	COMPUTER SOFTWARE/ MINOR IT EQUIPMENT
4326	13A	55	993.15	CELL PHONE SERVICES
<b>Other Total:</b>			<b>1,212.84</b>	
Total Direct Expenses			239,116.84	
Indirect (30%)			71,735.05	
<b>Total Expenses 5/1/23 - 10/31/23</b>			<b>310,851.89</b>	