OMB Control No.: 0648-0593 Expiration Date: 09/30/2012

166 Water Street Woods Hole, MA 02543



Data Waiver Form

1,,	owner or authorized representative of the
fishing vessel,	, CG Documentation #,
Management Act, 16 U.S.C. 1881a(b) (1)	(F) of the Magnuson-Stevens Fishery Conservation an (F), to authorize the release of observer information agement purposes aboard the aforementioned vessel to
Observer Data Waiver Period:	
Comments:	
ner/Authorized Representative Signature	
e return to: Van Atten, Branch Chief ries Sampling Branch A Fisheries	Date Signed

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0648-0593. Without this approval, we could not conduct this information collection. Public reporting for this information collection is estimated to be approximately 5 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Data and Information Systems (DIS) Branch by email at nefsc.svc.dis@noaa.gov.

Authority: The collection of this information is authorized under the Magnuson-Stevens Fishery Conservation and Management Act, 16 U.S.C. 1801 et seq., the High Seas Fishing Compliance Act, 16 U.S.C. Ch. 75, the Tuna Conventions Act, 16 U.S.C. Ch. 16, the Antarctic Marine Living Resources Convention Act, 16 U.S.C. 2431 et seq., the Western and Central Pacific Fisheries Convention Implementation Act, 16 U.S.C. 6901 et seq., the Marine Mammal Protection Act, 16 USC 1361 et seq., the Endangered Species Act, 16 U.S.C. 1531, the Fur Seal Act, 16 U.S.C. 1151-1187, and the authority for the mandatory collection of the Taxpayer Identifying Number (TIN) is 31 U.S.C. 7701.

Purpose: In order to meet its mission in providing stewardship of the nation's ocean resources and their habitat, the NOAA National Marine Fisheries Service (NMFS) leads and collaborates with fishery management councils to prevent overfishing, killing of protected species, and to promote healthy ecosystems and economy. NMFS requires the use of observers in the United States to provide timely and reliable information that is critical for the conservation and management of living marine resources. NMFS collects and stores permit or registration data of its participants. The information collected includes permit holder name, address, phone number, date of birth, vessel descriptive information, and taxpayer information number (TIN). Permit holder information may be used as sampling frames for surveys, as part of Fishery Management Council (FMC) analysis to support FMC decisions.

Routine Uses: The Department will use this information to determine permit eligibility and to identify fishery participants. Disclosure of this information is permitted



External Data Request Form

Northeast Fisheries Science Center Fishery Monitoring and Research Division

Instruction:

Individuals requesting FMRD data should complete sections 1 and 2. Completed forms can be submitted to the Data and Information Systems (DIS) Branch by email at nefsc.svc.dis@noaa.gov. Requested data is output in XLSX format. Please specify if a different format is preferred. Please send any questions to this email address as well.

Section 1: User Information									
Last:	First:	Initial:							
Affiliation:	Permit Numb	umber:							
Address:									
City:	State:	Zip Code:							
Phone:	Email:								
Signature:		Date Signed:/ Day Month Year							
Section 2: Data Request Details Purpose, Use, and Description of reques									
,									
Data Requested:	04 4 51 4	0							
Fishery Monitoring Operations	Study Fleet	Cooperative Research Surveys							
	☐ Vessel Logbook Data ☐ GTE (TD/GPS) Data	☐ Bottom Longline Survey							
Date Range:	Spatial Range:								
Fisheries:	Gear Types:								

Date Updated: 26-OCT-2023 Pg 1 of 2



Specific Vessels :		
(Names and Permits)		
Data Elements:		
Coation 2: Authorization		
Section 3: Authorization		
☐ Request Approved	☐ Request Denied	
Approved By	 Signature	Date://
Approved by	Signature	Day Month real
NEFSC-ISSO Name	Signature	Date: / /
Data Request ID Number: DR		
Comments:		

A Federal agency may not conduct or sponsor, and a person is not required to respond to, nor shall a person be subject to a penalty for failure to comply with an information collection subject to the requirements of the Paperwork Reduction Act of 1995 unless the information collection has a currently valid OMB Control Number. The approved OMB Control Number for this information collection is 0648-0593. Without this approval, we could not conduct this information collection. Public reporting for this information collection is estimated to be approximately 20 minutes per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the information collection. All responses to this information collection are voluntary. Send comments regarding this burden estimate or any other aspect of this information collection, including suggestions for reducing this burden to the Data and Information Systems (DIS) Branch by email at nefsc.svc.dis@noaa.gov.

Privacy Act Statement

Authority: The collection of this information is authorized under the Magnuson-Stevens Fishery Conservation and Management Act, 16 U.S.C. 1801 et seq., the High Seas Fishing Compliance Act, 16 U.S.C. Ch. 75, the Tuna Conventions Act, 16 U.S.C. Ch. 16, the Antarctic Marine Living Resources Convention Act, 16 U.S.C. 2431 et seq., the Western and Central Pacific Fisheries Convention Implementation Act, 16 U.S.C. 6901 et seq., the Marine Mammal Protection Act, 16 USC 1361 et seq., the Endangered Species Act, 16 U.S.C. 1531, the Fur Seal Act, 16 U.S.C. 1151-1187, and the authority for the mandatory collection of the Taxpayer Identifying Number (TIN) is 31 U.S.C. 7701.

Purpose: In order to meet its mission in providing stewardship of the nation's ocean resources and their habitat, the NOAA National Marine Fisheries Service (NMFS) leads and collaborates with fishery management councils to prevent overfishing, killing of protected species, and to promote healthy ecosystems and economy. NMFS requires the use of observers in the United States to provide timely and reliable information that is critical for the conservation and management of living marine resources. NMFS collects and stores permit or registration data of its participants. The information collected includes permit holder name, address, phone number, date of birth, vessel descriptive information, and taxpayer information number (TIN). Permit holder information may be used as sampling frames for surveys, as part of Fishery Management Council (FMC) analysis to support FMC decisions.

Routine Uses: The Department will use this information to determine permit eligibility and to identify fishery participants. Disclosure of this information is permitted under the Privacy Act of 1974 (5 U.S.C. Section 552a), to be shared within NMFS offices and the NMFS Observer Program. Disclosure is also for sharing with organizations, including the Atlantic Coastal Cooperative Statistics Program (ACCSP) for modeling and statistical purposes. Disclosure of this information is also subject to all of the published routine uses as identified in the Privacy Act System of Records Notice COMMERCE/NOAA-19, Permits and Registrations for the United States Federally Regulated Fisheries.

 ${\bf Disclosure} : \ Voluntary.$

Date Updated: 26-OCT-2023

Pg 2 of 2

OMB Control Number 2019

\/-			OMB Control No. 0648-0593 valid through XX/XX/20XX
Ve	ssel r	name	01/01/21
	p ID	nber	Northeast Fisheries Science Center, Fisheries Sampling Branch PRE TRIP VESSEL SAFETY CHECKLIST (PTVSC) For each safety item shade in the appropriate box.
	T		Y = yes, $N = no$, $NR = not$ required
Da	te lan	 ded (<u>M</u> 	It is MANDATORY that all safety items on board a fishing vessel that are highlighted in BOLD print be current (not expired) in order for an observer to deploy on a trip.
Y	N	NR	Please comment on any safety or stability related issues in the provided spaces on the back of the PTVSC
			Current USCG Commercial Fishing Vessel Safety Examination Decal
			*Required for all vessels carrying an observer on board Safety Decal Number Expiration (MM/YY)
	Ц		*Required for all vessels operating beyond 3 miles Hydrostatic release service expiration Battery expiration (MM/YY) (MM/YY)
			Does the alphanumeric code (UIN) on the NOAA SARSAT decal match the UIN code on EPIRB?
			Is the EPIRB registered to the vessel or vessel owner? Expiration (MM/YY)
			<u>Life raft(s)</u> *Not required for vessels within 12 mi. of coast, ≤ 3 people and length <36'.
			Hydrostatic release service expiration (MM/YY)
			Raft service (repack) expiration (MM/YY)
			Capacity
			Is the life raft configured correctly? See back of sheet for figure of the hydrostatic release
			Immersion suits and personal flotation devices *PFDs are required to be worn by the observer while out on deck Are there enough for everyone on board? Keep yours easily accessible.
			<u>Life rings</u> Vessels <26' = cushion, >26' = 1 life ring buoy, >65' = 3 life ring buoys
			Fire extinguishers *Not required for vessels <26' with outboard motor(s) and portable fuel tanks
			Emergency signaling flares *Check expiration dates <3mi. = night light and smoke or 3 day/night flares; >3mi. = 3 parachute, 6 hand held, 3 smoke
			First aid material
			Radio(s)
			Were there any stability concerns/issues, either because of behavior or vessel design, during this trip? *See back of sheet for examples. If yes, please comment.
			Did you provide any additional comments?

The following is a suggested list of examples that you should check or consider while doing a <u>vessel walk through</u>. They are listed here to assist you in determining the relative safety of a particular vessel. A more comprehensive list is detailed in the program manual.

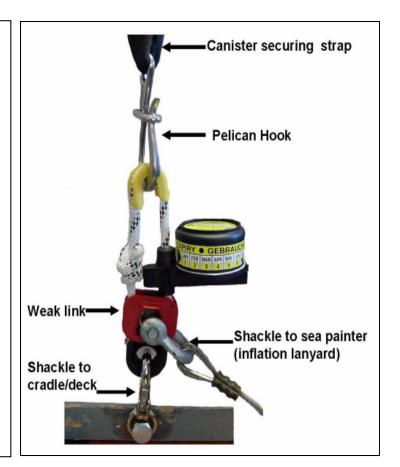
- Note potentially hazardous areas/conditions (e.g. winches, overhead wires, rusted or worn shackles and blocks, combustible items, exposed exhaust pipes/manifolds, drive chains, pulleys or belts)
- Visualize egress routes for all possible emergency scenarios (fire, flooding, dark, capsizing) and mentally note landmarks
- Is the life raft and EPRIB located in a float free area?
 Would you be able to access these items if conditions were icy or the wheelhouse was on fire?
- Is there a station bill posted and is your role clear during all shipboard emergencies?
- Discuss with the captain if safety drills are conducted on this vessel? (May include fire, flooding, abandon ship, etc.) Will one be conducted when you are on board?

The following are examples of things to consider related to the vessel design or fishing practices which may compromise <u>vessel</u> stability.

- Note the roll period of the vessel (quick, snappy roll is more stable than a slow or sluggish roll)
- Does the vessel list excessively?

Safety Comments

Do the fishing practices involve a pattern of towing heavy bags or dumping the catch to one side of the vessel?



Stability comments

	Stability Comments
	CKED YOUR PERSONAL SAFETY EQUIPMENT?
Check the appropriate box for the method that was use	d to verify EPIRB expiration dates:
☐ I visually inspected the EPIRB; Record EVIC information EVIC number ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	n below if one was issued (MM/YY)
EVIC Humber	(IVIIVI/TT)
☐ I used a previously issued EVIC; Record EVIC informati	
EVIC number Date issued	(MM/YY)
☐ Lused approved USCG documentation that was issued	within the last 90 days (comments & expiration dates required)
assa approved esses desamentation that was lessed	main are last to days (sommone a expiration dates required)
Signature ————	Date

VESSEL AND TRIP INFORMATION LOG DATE RECEIVED NMFS FISHERIES OBSERVER PROGRAM EDITED BY OBTRP OBTRG OBTRS 01/01/21 DEPLOYOMENT ID AGE STRUCTURES FIELD DIARY OBS/TRIP ID PROGRAM CODE SECTOR ID **FLEET** VENDOR ID INCIDENTAL TAKES WHOLE FISH COMMENT LOG Υ Ν Ν Env. Froz. Ν VESSEL NAME # 1 VESSEL NUMBER # 1 VESSEL PERMIT # 1 PORT SAILED (CITY, STATE) CODE DATE SAILED mm/dd/yy TIME SAILED VESSEL NAME # 2 VESSEL NUMBER # 2 VESSEL PERMIT # 2 PORT LANDED (CITY, STATE) CODE DATE LANDED TIME LANDED 24 I mm/dd/yy HOME PORT (CITY,STATE) CODE EXP. TRIP DUR CREW SIZE DEALER'S NAME VTR SERIAL NUMBER STEAM TIME (calc) (INCLUDE CAPT) day(s) hrs TRIP TYPE TRIP COSTS Single Gear ICE USED FUEL USED DAMAGE/LOSS * SUPPLIES * FOOD ICE (PER TON) FUEL (PER GAL) WATER OIL BAIT Unknown Unknown Unknown Unknown Unknown Unknown Unknown Unknown Multiple Gear . 00 \$. 00 .00 | \$ \$. 00 . 00 . 00 ___ tn GEAR INFORMATION (IN USE & STOWED) TIME LOST * PRIMARY GEAR CODE USED? # ONBRD # SOAK CAPT EXP (yrs) TARGET SPECIES CODE(S) REASON **AMOUNT** 0 No Yes hrs OTHER GEAR 1 USED? # ONBRD # SOAK CAPT EXP (yrs) TARGET SPECIES CODE CODE(S) No 0 Yes OTHER GEAR 2 CODE USED? # ONBRD # SOAK CAPT EXP (yrs) TARGET SPECIES CODE(S) No 0 Yes OTHER GEAR 3 CODE USED? # ONBRD # SOAK CAPT EXP (yrs) TARGET SPECIES CODE(S) No 0 Yes # TRIP HAULS # UNOBSERVED HAULS PRIMARY SPECIES LANDED PHOTOS? SCALLOP TRIPS ONLY SOAKED? # OF BAGS AVERAGE WGT/BAG Ν No 0 COMMENTS Yes 1 DATE ARRIVED AT DOCK mm/dd/yy TIME ARRIVED 24 r Only fill in for first trip of deployment DATE DISEMBARKED mm/dd/yy TIME DISEMBARKED 24 h

Fields that require a comment

Only fill in for last trip of deployment

GILLNET GEAR CHARACTERISTICS LOG NMFS FISHERIES OBSERVER PROGRAM ORGGG OBMSZ 01/01/21

OBGGG OBMSZ 01/01/2	21						PA	AGE#			OF	
GEAR CODE GEAR NUMBE	R(S)		NUMBER	R OF NETS			MESH SIZE(S)				NET COLOR	
'							1				Unknown	00
							# OF N	ETS	MESH S	SIZE (inches)	Clear	01
-	USED?	NO YE	= <u>-</u>	MEASUREMENTS]	White	02
I	FLOATS	0	1	Dist Between		ft				<u>·</u>	Pink	03
LENGTHft											Black	04
·	TIE DOWNS	0	1(all nets)	Length	·	ft				·	Green	05
			2(not all net	s)							Blue	06
HEIGHT (endline) ft	SPACE(S)									· ——	Multi-color	07
MEGULOGUET	BETWEEN NETS	0	1	Number		.					Red	08
MESH COUNT	≥2.5ft			Width		ft	<u> </u>	OR		·	Orange	09
VERTICAL	DDODI INTO	0	4	I					DANCE		Purple	10
HANGING	DROPLINES	υ <u></u>	1	Length		_ft		MESH SIZE	KANGE		Combination	98
HANGING RATIO <i>I</i>	ADDITIONAL WGTS	0	1	Woight		lbs		_			Other	99
<u> </u>	PDDITIONAL MO19	·	'—	Weight		- 1	SURFACE SYSTEM		<u></u> :	BUOYLINE		
ı	ANCHOR(S)	0	1	Туре			SOM AGE GIGIEN			# of Buoyline(s)		
TWINE SIZE		<u> </u>	· <u> </u>	Unknown	0		# of High Flyer(s)			5. 545,1116(3)		
	Number			Danforth-style	· 1	-				Length (avg)		ft
'	1		_	Dead Weight		-	# of Buoy(s)			3 (3)		
	Weight (total)		lbs	Combination	8	_	'`'			Type Code		
FLOATLINE MATERIAL	- , ,		_ _	Other	9	_	Surface Line					
·	SECURING METHOD(S)						Length (avg)		ft	Percent of Type	%/	<u>%</u>
Unknown 0	None	1				,			_	(sinking / floating)		-
Floating (foam core) 1	Ocean Bottom	2		_	_		Type Code					
Twisted Polypropylene 2	Vessel/Ocean Bottom									Diameter		in
Other 9	Vessel Only	4				\dashv	Diameter		<u>/</u> in			
ı	MM DETERRENT DEVIC		=					=		Mark?	NO 0_	_
 1		1	Brand	, ,	00		Mark?	NO (MEALCHAIC	YES 1_	
	Number		-	Unknown	00	İ		YES 1	I	WEAK LINKS	NO	YES
LEADLINE WEIGHT	Frequency	kH	7	Dukane Airmar	01	İ				USED ON SURFACE	2 0 4	
LLADLINE WEIGHT	Frequency	KH	L	Airmar Fumunda	02 <u> </u>	İ	GROUNDLINE	NO Y	YES	JOSED ON SOKFACE	? 01	-
. lbs/ net	PASSIVE USED? 0	1		Furnunda Future Oceans LED	03	İ	CICOMPLINE	110	3	Number (to	otal)	
	0_	'		Combination	98		USED?	0	1	14diliber (t		
1	Number			Other	99		•	<u>-</u>		Type Code	3	
	_		_			İ	Length (total)		ft	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
COMMENTS]			USED ON STRING?	0 1	_
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OBS/ TRIP ID

DATE LAND (mm/yy)

			DATE LAND (mm/yy)	/
			PAGE #	OF
NEAK LINK TYPE CODES:	LINE TYPE CODES:	ADDITIONAL COMMENTS		
) = Unknown	0 = Unknown			
Rope of Appropriate Breaking Strength	1 = Sinking / Neutrally Buoyant			
2 = Off the Shelf	2 = Floating			
3 = Overhand Knot	8 = Combination			
4 = Hog Rings	9 = Other			
B = Combination				
O = Other				
DIAGRAMS	6 FOR REFERENCE ONLY			
High Flyer Buoy N Floats atta				
Photo Credit: NOAA Fisheries Service Northeast Regional Office (Original image n	nodified to include additional information\			
Ti	e Down			
FOR OFFICE USE ONLY				

OBS/ TRIP ID

GILLNET			ERVER PRO	CDAM										OBS/ TR	IP ID ND (mm/yy	λ		1	
			SPP 01/01/2											PAGE #	IND (IIIII/yy)		OF	
GEAR CODE	GEAR #		HAUL#	HAUL OB	C2 ON	EFFORT?	NANA 10/	ATCH?	CATCH?	INC TA	VKE3	WEATHER CODE	1	WIND	Ιν/ν/Γ	HEIGHT DE			
GEAR CODE	GEAR#	_	HAOL#	NO 0	NO NO		NO 0		NO 0	NO 0		WEATHER CODE	SPEED				TTOM	LEADLINE	
				YES 1	YES		YES 1		YES 1	YES 1			0. 225		0				-
									_					kn		ft	fm		fm
SET INFO	DATE	AND) TIME		L	ATITUDE / LO	NGITUDE	(DD MM.M) - LORAN (XXXXX)		ESTIMATED		TARGET SPE	CIES	СО	DE(S)	GEAR CO	ND CODE
	mm/dd/yy		24 hours	Station 1	Latitude	e / Bearing		Station 2	Lo	ngitude / Bear	ing	SOAK DURATIO	N						
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T END	1 1		:	9960 -				9960 -					hrs	NUMBER OF	NETS	IF MM DE	ETERRENT ACTIVE		SSIVE
HAUL INFO												WATER TEMP		SET					
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														Tide/Current	an 03 04				_
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	NAM	_		CODE	SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	METHOI CODE			NAME		CODE	SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	METHOD CODE
	INAIVI			CODE	WEIGITI	1 001103	CODE	D/IX	CODE			INAME		CODL	WEIGITI	TOUNDS	CODL	D/IX	CODE
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CATCH ESTIMATION WORKSHEET NMFS FISHERIES OBSERVER PROGRAM 01/01/21

OBS/TRIP ID

DATE LANDED mm/yy /
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01/01/21								1 1/-	OL#			
SORTING METHO	D E	STIMATION MET	HODS				BASKET OR TOTE CO	DUNT OR T	ALLY			
Check all that apply			tual (Electronic Scale)			**	Unit Types: B = Basket, T = Tote, I					
1 ☐ Picked	05 = Tally		sket or Tote Count		Disp.	**Unit	I	Total Sample		A \A/=:= -4	Total # of	Total Est.
				Species	Code	Type	List Individual Sample Weights	Weight	# or Sample Units	Avg. Weight per Unit	Units	Weight
2 ☐ Shoveled	02 = Volume-to-Vo		unt-to-Count		Code	туре		weight	Units	per Unit	Units	weigni
3 ☐ Deckloaded	14 = Weight-to-We	eight 07 = Cu	mulative Sum						1 '	1		
4 ☐ Conveyor System	n 12 = Trap Subsam	nple 10 = Ca	tch Composition Log	1					<u> </u>	- <u> </u>		
5 Pumping System	04 = Captain	06 = Vis	ually Estimated									
9 Cther (Comment			MAREL SCALE	2					1 '	!		
- - - - - - - - - -	99 = Other (Comm	'	CALIBRATION WT									
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W-[W-[C	ft X	_ ft X ft X	0.785 = . ft ³	9					1 '	[·]		
	── Width Length	Avg. Depth	0.785 = ft ³									
Other Shapes or Combinat	tion: Draw and label all dimer			10					1 '	i		
1			= . ft ³	COMMENTS:								
DEPTHS: Representative de	ft if the catch pile is not in a cl			COMMENTO.								
include a single depth of 0.0	it ii the catch pile is not in a ci	riecker peri or slopes to z	elo. Volunio									
A) Total Haul Vol.	B) Total Subsa	' '	C) Sample Weight	1								
A) Total Haul Vol.	,	•										
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TIPES TCOU	int Other]								
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2												
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3			1									
4												
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ib		1										

BOTTOM TRAWL GEAR CHARACTERISTICS LOG NMFS FISHERIES OBSERVER PROGRAM OBOTG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	1
PAGE #	OF

	Joseph			T				T						1	
GEAR CODE	GEAR NUMBER	RNEINAN	ΛΕ	NET T	YPE	NETE	BUILDER		ID/LINER			GEAR MOUNTE		EXCLUDER/SEPAR	ATOR DEVICE
								HUNG	C	CODEND	LINER	ELECTRONICS			
														USED? NO 0	YES 1
								Unknov	vn	0		USED?			
LINER USED?	CONSTRUCTIO	N MATER	IAL		LENGTH MEA	ASUREME	NTS	Diamor	ıd	1		NO 0			
NO 0	TYPE	NET BOD	OY CODEND	LINER				Square		2		YES 1		Type Code	
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DOORS USED?	⊣ ′)2			Footrope/Swe	en	ft					TRANSDUCERS	3	T.E.D. EXTENSION	
	-)3						TWINE	TYPE C	CODEND	LINER		-		
NO 0)4			Ground Cable		fn		(JOBEND	LIIVLIV			Mesh Size	- in
YES 1					Ground Gable	•	"	' Unknov	un.	0		-	_		<u>. </u>
TES 1)5)6			Bridle		fm	Single	VII	0 1		TYPE		(circle one) A / E	
MEIOLIT OF ONE				_		NED HOE							0	` '	
WEIGHT OF ONE		98			STRENGTHE	NER USE	D?	Double		2		Unknown	0	ESCAPE OUTLET	
DOOR	Other 9	99						Single				Wired	1		
					NO 0	YE	ES 1		on Bottom	13		Wireless	2	USED? NO 0	YES 1
kg								Other		9		Both	3		
KITE PANEL		FISHI	NG CIRCLE												
KITE USED?					CHAFING GE	AR USED	?	CODEN	ID MESH	SIZE		BRAND		TYPE	
Num	ber	_ # ME	SHES									Unknown	0	Unknown	0
NO 0 Wid	h	_in	·		NO 0	YE	ES 1		mm		mm	Furuno®	1	Panel	1
YES 1 Leng	jth	_in MESH	H SIZE	in		<u>-</u>			<u>-</u>			Simrad®	2	Opening	2
COMMENTS			GROUND GEA	·R	1				mm		mm	Northstar Tech	3	Single Flap	3
					CABLE BR	IDLE/ LEG	SWEEP					Notus	4	Double Flap	4
			Unknown						mm		mm	Marport	5	Other	9
			Chain	01			-	-				Scanmar	6	7	
			Cable / Wire	02				=	mm		mm	Combination	8	1	
			Wrapped Cable					-				Other	9	+	
			Rock Hopper	04					mm		mm			1450110175	·
			Roller	05				- =-						MESH SIZE	in
			Rubber Cookie					- ILINER	MESH SIZ	Ŀ					
			Bobbin	07				-				LOCATION		LENGTH	
			Plate Gear	80				_	mm		mm	(check all that ap	oply)	# MESHES	ORin
			None	98				_							
			Other	99				_	mm		mm		0 📙	WIDTH	
												•	1 📙	# MESHES	OR in
									mm	_	mm	_	2 🔲		
			SWEEP GEAR	1	FL	OATS						_	3		
			Number		Nu	mber			mm		mm	Door	5	SHAPE Type Code	
			_		-							Codend	6		
			Diameter		in Dia	ameter	in		mm		mm	Other	9 🗌	LOCATION Type Co	de
			_		=										
1			1											-1	

				PAGE# OF
ADDITIONAL COMMENTS	EXCLUDER/SEPARATOR DEVICE	TYPE CODES:	ESCAPE OUTLET SHAPE CODES:	ESCAPE OUTLET LOCATION CODES:
	00 = Unknown	24 = Bent Rod T.E.D.	00 = Unknown	0 = Unknown
	01 = Nordmore Grate	25 = Conch T.E.D.	01 = Rectangular	1 = Net Top
	03 = Separator Panel	26 = Flat Bottom T.E.D.	05 = Trapezoid	2 = Net Bottom
	04 = Guiding Device	27 = Whelk T.E.D.	06 = Square	3 = Net Side
	05 = Raised Footrope	28 = Flexible T.E.D.	07 = Diamond	4 = Codend Top
	06 = Compound Nordmore Grate	29 = Parker Soft T.E.D.	08 = Triangular	5 = Codend Bottom
	07 = Double Nordmore Grate	30 = Experimental T.E.D.	09 = Semi-Circle	8 = Combination (Comment)
	08 = Large Mesh	31 = Northeast Modified T.E.D.	11 = Horizontal Cut	9 = Other (Comment)
	20 = T.E.D., Unknown	32 = Large Flat Bar T.E.D.	99 = Other (Comment)	
	21 = Standard T.E.D.	98 = Combination (Comment)		
	22 = Weedless T.E.D.	99 = Other (Comment)		
	23 = Flounder T.E.D.			
FOR OFFICE USE ONLY				

OMB Control No.: 0648-0593 Expires On: XX/XX/20XX

OBS/TRIP ID

DATE LANDED mm/yy

BOTTOM TRAWL HAUL LOG OBS/ TRIP ID NMFS FISHERIES OBSERVER PROGRAM DATE LAND (mm/yy) OBOTH OBHAU OBSPP 01/01/21 PAGE# OF GEAR CODE GEAR# ON-EFFORT? CATCH? WAVE HEIGHT DEPTH, GEAR COND CODE HAUL# HAUL OBS? INC TAKE? WEATHER CODE WIND NO 0 NO 0 NO 0 NO 0 SPEED DIRECTION HAUL BEGIN YES 1 YES 1 0 YES 1 YES 1 kn LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) HAUL DATE TIME NUMBER OF TURNS TOW SPEED WIRE OUT INFO mm/dd/yy 24 hours Station 1 Latitude / Bearing Station 2 Longitude / Bearing BEGIN 9960 -9960 -HAUL kn fm BEGIN WATER TEMP TARGET SPECIES CODE FISHING 0 END 9960 -9960 -HAUL GEAR COMMENTS VERTICAL OPENING ** ONBOARD FISH PUMPING HORIZONTAL OPENING ** 1 1 BEGIN ft : DOOR SPREAD ** SAMPLE WEIGHT MULTIPLIER END ft * Only fill in if gear mounted electronics are used **SPECIES** WEIGHT **SPECIES** WEIGHT SUB-**ESTIMATION** SUB-ESTIMATION SAMPLE DISP **METHOD** SAMPLE DISP METHOD NAME CODE WEIGHT POUNDS CODE D/R CODE NAME CODE WEIGHT POUNDS CODE D/R CODE

CATCH ESTIMATION WORKSHEET NMFS FISHERIES OBSERVER PROGRAM 01/01/21

OBS/TRIP ID

DATE LANDED mm/yy /
HAUII #

01/01/21								1 1/-	OL#						
SORTING METHO	D E	STIMATION MET	HODS	BASKET OR TOTE COUNT OR TALLY											
Check all that apply			tual (Electronic Scale)			**	Unit Types: B = Basket, T = Tote, I								
1 ☐ Picked	05 = Tally		sket or Tote Count		Disp.	**Unit	I	Total Sample		A \A/=:= -4	Total # of	Total Est.			
				Species	Code	Type	List Individual Sample Weights	Weight	# or Sample Units	Avg. Weight per Unit	Units	Weight			
2 ☐ Shoveled	02 = Volume-to-Vo		unt-to-Count		Code	туре		vveignt	Units	per Unit	Units	weigni			
3 ☐ Deckloaded	14 = Weight-to-We	eight 07 = Cu	mulative Sum						1 '	1					
4 ☐ Conveyor System	n 12 = Trap Subsam	nple 10 = Ca	tch Composition Log	1					<u> </u>	- <u> </u>					
5 Pumping System	04 = Captain	06 = Vis	ually Estimated												
9 Cther (Comment			MAREL SCALE	2					1 '	!					
- - - - - - - - - -	99 = Other (Comm	'	CALIBRATION WT												
	OLUME-TO-VOLUM			3					1 '	1					
	AS SEEN FROM ABOVE			3					\vdash						
	AO OLLIVI NOW ABOVE								1 '	1					
Trapezoid W1				4					 !	·_					
	·_# +·_#J×_	ft Xft 〉	0.5 = ft ³	8					1 '	1					
W2/L	Width 1 Width 2 Lo	ength Avg. Depth	Volume	5					1 '						
	†								T T						
	ft X	_ ft X ft	= ft ³	6					1 '	l					
Rectangle W-	→ Width Length	Ava Depth	= ft ³						 						
Triangle 🔨 🔼		7.11g. 2.5pu.	Volumo	7					1 '	1					
I mangle	6.77	# V (1)	.0.5	,					igwdot	<u> </u>					
<u> </u>	: ·_ π x:_	_ ". ^π/	$0.5 = _{\underbrace{\text{Volume}}} - \text{ft}^3$						1 '	1					
w \	Width Length	Avg. Depth	Volume	8					<u> </u>	·					
Full Oval or Half-Oval									1 '	1					
W-[W-[C	ft X	_ ft X ft X	0.785 = . ft ³	9					1 '	[·]					
	── Width Length	Avg. Depth	0.785 = ft ³												
Other Shapes or Combinat	tion: Draw and label all dimer			10					1 '	i					
1			= . ft ³	COMMENTS:											
DEPTHS: Representative de	ft if the catch pile is not in a cl			COMMENTO.											
include a single depth of 0.0	it ii the catch pile is not in a ci	riecker peri or slopes to z	elo. Volunio												
A) Total Haul Vol.	B) Total Subsa	' '	C) Sample Weight	1											
A) Total Haul Vol.	,	•													
<u> </u>		3 =ft ³	Multiplier												
	_Tote(s) X 2.65 ft ²	³ =ft ³	(A ÷ B)												
ft°	Other(s) X	_ft ³ =ft ³													
OTHER _ U	nit Type A) Tota	al B) Sample													
SUBSAMPLE Bas	ket Tote		l												
TYPES Wei	ght 🔲 Trap		>> Copy to Front >>												
TIPES TCOU	int Other]											
DECKLOA	DING and CUMULA	TIVE SUM		_											
Entire Deckloading	Deckloading Mea	surements													
Haul Range Tota	l Pile Vol. Remainder Pile V	/ol. A) Total Haul Vo													
	ft ³ ft ³	=ft ³													
	Meth.: Estimation Method used t														
Sam	 Wgt. for cumulative sum calcul ditional calculations & use '98' or 														
			-												
	Disp. Total Sampled Code Weight	*Est. Weight per Method Haul													
	oode weight	Wictiod Hadi													
1			1												
2															
 			1												
3			1												
4															
			1												
ib		1													

PAIR and SINGLE MID-WATER TRAWL GEAR CHARACTERISTICS LOG NMFS FISHERIES OBSERVER PROGRAM ORPRG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	1
PAGE#	OF

OBI NO 01/0	.,									I AGL#			OI _	
GEAR CODE	GEAR N	IUMBER NET NA	AME	NET TYPE	NET BUILDER	YEAR NET	CODEND/LINER			GEAR MOUNTE	D	EXCLUDER/SEP	ARATOR DE	VICE
						MADE	HUNG	CODEND	LINER	ELECTRONICS				
												USED? NO 0	YES	1
							Unknown	0		USED?		-		
GEAR FISHED		CONSTRUCTION	MATERIAL		LENGTH MEASUREM	MENTS	Diamond	1		NO 0				
Unknown	0	TYPE	NET BODY CO	DDEND LINER			Square	2		YES 1		Type Code		
Pelagic	1	Unknown 00			Headrope	ft	Square, wrapped	3						
Semi-Pelagic	2	Nylon 01					Combination	8		NUMBER OF				
Bottom	3	Poly 02			Footrope/Sweep	ft				TRANSDUCERS	S**	T.E.D. EXTENSION	N	
Other	9	Kevlar® 03					TWINE TYPE	CODEND	LINER					
		Spectra® 04			Top Bridle	fm						Mesh Size	. ir	n
		Tenex® 05			,		Unknown	0						
NET		Nomex® 06			Wing Bridle	fm	Single	1		TYPE		(circle one) A /	Е	
CONSTRUCTION		Combination 98					Double	2		Unknown	0	ESCAPE OUTLE		
Unknown	0	Other 99			Bottom Bridle	fm	Single on Top/			Wired	1			
Rope/Large Mesh	1	1			BRIDLES	NUMBER	Double on Bottom	3		Wireless	2	USED? NO 0	YES	: 1
Parallel Rope Trawl	2	-			BRIDEES	NOMBER	Other	o		Both	3	JOOLD: NO 0		·—
Other	9	BUOYANCY/REL	EASE DEVICE		BRIDLES/WARP		Other	<i></i>		Dour				
Outo	<u> </u>	USED?	NO NO	YES	BINDLES/W/N		CODEND MESH SI	7E				TYPE		
DESIGN		FLOATS	0	1	BRIDLES/SIDE		CODEND MEST OF			BRAND		Unknown	Λ	
Unknown	0	BLOWOUT	0	. '	DIVIDEE0/OIDE		mm		mm	Unknown	0	Panel	1	
2 Seam	1	KITE	0		WARPS/BOAT*					Furuno®	1	Opening	<u>'</u>	_
	· _ ' —		<u> </u>	. '							<u>'</u> —	1	2	_
4 Seam, Equal Panels	· 2	IZITE DANIEL			FISHING CIRCLE		mm		mm	Simrad®	2	Single Flap	3 4	_
4 Seam, Unequal		KITE PANEL			# MESHES					Northstar Tech	3	Double Flap	4	_
Panels	3	Number	 .		MEOULOIZE		mm		mm	Notus	4	Other	9	
Other	9	Length	in		MESH SIZE	in	4			Marport	5			
		Width	in		STRENGTHENER US		mm		mm	Scanmar	6			
NET BODY MESH SIZ					NO 0	YES 1				Combination	8			
Minimum	<u>.</u> in	FLOATS			CHAFING GEAR USE		mm		mm	Other	9	4		
Maximum	<u>.</u> in	Number	Diamete	erin	NO 0	YES 1						MESH SIZE	in	
LINER USED?		COMMENTS					LINER MESH SIZE							
NO 0										LOCATION		LENGTH		
YES 1							mm		mm	(check all that ap	(ylgo	# MESHES	OR	in
DOORS											,			
USED? NO 0_ YES	1						mm		mm	Unknown	0	WIDTH		
_										Headrope	1	# MESHES	OR	in
WEIGHT	kg						mm		mm	Wings	2		_ •	
WEIGHTS (TOTAL)		4								Footrope	3			
USED? NO 0 YES	1						mm		mm	Door		SHAPE Type Cod	۵	
WEIGHT	'— lb	Codend = "Covers	shoot"							Codend	6	I I I I I I I I I I I I I I I I I I I		
Actual 1	ID	Liner = "Brailer"	oneer				pa ma		nama	Other		LOCATION Type	Codo	
					++ 1		mm		m	Ottlei	⊎	LOCATION Type		
Estimated 2		* Fill in only on pa	ır trawl trips.		** Include all se	ensors on the gear					_			

				PAGE# OF
ADDITIONAL COMMENTS	EXCLUDER/SEPARATOR DEVICE TYP		ESCAPE OUTLET SHAPE CODES:	ESCAPE OUTLET LOCATION CODES:
	00 = Unknown	24 = Bent Rod T.E.D.	00 = Unknown	0 = Unknown
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	23 = Flounder T.E.D.			
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OMB Control No.: 0648-0593 Expires On: XX/XX/20XX

OBS/TRIP ID

DATE LANDED mm/yy

NMFS FIS	SHERIES OBS	SERVER PRO	GRAM										DATE LAN	ND (mm/yy)			/	
OBPRH	OBHAU OB	SPP 01/01/21											PAGE#				OF _	
GEAR CODE	GEAR#	HAUL#	HAUL OB	S? ON	-EFFORT?	CATCH	? 1	INC TA	KE?	WEATHER		WIND	١	WAVE HEIG	HT DEF	PTH,	GEAR C	OND CODE
	- I		NO 0	NO	0	NO 0	ı	NO 0		CODE	SPEED	DIRECT	ION		HAU	JL BEGIN		
			YES 1	YE	S 1	YES 1		YES 1		_			0					
	_		_			_				=		kn			ft	fm		
HAUL	DATE	TIME			LATITUDE	/ LONGIT	TUDE (DD M	IM.M) -	LORAN (XXXXX)		NUMBE	R OF	TOW SPEE	ED WIRE	E OUT	WAT	ER TEM	0
INFO	mm/dd/yy	24 hours	Station 1	Latitude /	Bearing	;	Station 2		Longitude / Bear	ing	TURNS							
BEGIN																		0
HAUL	1 1	:	9960 -			!	9960 -							kn		fm		F
BEGIN											TARGET	SPECIES				CODE		
FISHING	1 1	:																
END																		
HAUL	/ /	:																
GEAR			9960 -			!	9960 -				DEPTH	RANGE, HEAD	ROPE					
ONBOARD	/ /	:																
FISH PUMPIN	IG		VERTICAL			ONTAL	**		DOOR SPREAD	**					_			
BEGIN			OPENING	i	OPENI	NG											fm	
	/ /	:									DISTAN	CE BETWEEN	BOATS *					
END	, ,														_			
COMMENTS	1 1	:			ft		f	ft			ft						ft	
															SAN	MPLE WEIG	HT MUL	ΓIPLIER
*Only fill in for p	oair trawl trips ear mounted electror	nics are used																
0y	SPECIES					1		WEI	SHT	SPE	ECIES						WEI	GHT
				SUB-					ESTIMATION				SUB-					ESTIMATION
	NAME		CODE	SAMPLE	DOUNDO	DISP		,	METHOD	NIANAT		0000	SAMPL WEIGH			ISP	D/D	METHOD
	NAME		CODE	WEIGHT	POUNDS	CODE	E D/F	۲	CODE	NAME		CODE	WEIGH	IT POUN	DS C	ODE	D/R	CODE
													•					
				'-		1											+	
. <u> </u>				·_										_				
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OBS/ TRIP ID

PAIR and SINGLE MID-WATER TRAWL HAUL LOG

CATCH ESTIMATION WORKSHEET NMFS FISHERIES OBSERVER PROGRAM 01/01/21

OBS/TRIP ID

DATE LANDED mm/yy /
HAUII #

01/01/21								1 1/-	OL#						
SORTING METHO	D E	STIMATION MET	HODS	BASKET OR TOTE COUNT OR TALLY											
Check all that apply			tual (Electronic Scale)			**	Unit Types: B = Basket, T = Tote, I								
1 ☐ Picked	05 = Tally		sket or Tote Count		Disp.	**Unit	I	Total Sample		A \A/=:= -4	Total # of	Total Est.			
				Species	Code	Type	List Individual Sample Weights	Weight	# or Sample Units	Avg. Weight per Unit	Units	Weight			
2 ☐ Shoveled	02 = Volume-to-Vo		unt-to-Count		Code	туре		vveignt	Units	per Unit	Units	weigni			
3 ☐ Deckloaded	14 = Weight-to-We	eight 07 = Cu	mulative Sum						1 '	1					
4 ☐ Conveyor System	n 12 = Trap Subsam	nple 10 = Ca	tch Composition Log	1					<u> </u>	- <u> </u>					
5 Pumping System	04 = Captain	06 = Vis	ually Estimated												
9 Cther (Comment			MAREL SCALE	2					1 '	!					
- - - - - - - - - -	99 = Other (Comm	'	CALIBRATION WT												
	OLUME-TO-VOLUM			3					1 '	1					
	AS SEEN FROM ABOVE			3					\vdash						
	AO OLLIVI NOW ABOVE								1 '	1					
Trapezoid W1				4					 !	·_					
	·_# +·_#J×_	ft Xft 〉	0.5 = ft ³	8					1 '	1					
W2/L	Width 1 Width 2 Lo	ength Avg. Depth	Volume	5					1 '						
	†								T T						
	ft X	_ ft X ft	= ft ³	6					1 '	l					
Rectangle W-	→ Width Length	Ava Depth	= ft ³						 						
Triangle 🔨 🔼		7.11g. 2.5pu.	Volumo	7					1 '	1					
I mangle	6.77	# V (1)	.0.5	,					igwdot	<u> </u>					
<u> </u>	: ·_ π x:_	_ ". ^π/	$0.5 = _{\underbrace{\text{Volume}}} - \text{ft}^3$						1 '	1					
w \	Width Length	Avg. Depth	Volume	8					<u> </u>	·					
Full Oval or Half-Oval									1 '	1					
W-[W-[C	ft X	_ ft X ft X	0.785 = . ft ³	9					1 '	[·]					
	── Width Length	Avg. Depth	0.785 = ft ³												
Other Shapes or Combinat	tion: Draw and label all dimer			10					1 '	i					
1			= . ft ³	COMMENTS:											
DEPTHS: Representative de	ft if the catch pile is not in a cl			COMMENTO.											
include a single depth of 0.0	it ii the catch pile is not in a ci	riecker peri or slopes to z	elo. Volunio												
A) Total Haul Vol.	B) Total Subsa	' '	C) Sample Weight	1											
A) Total Haul Vol.	,	•													
<u> </u>		3 =ft ³	Multiplier												
	_Tote(s) X 2.65 ft ²	³ =ft ³	(A ÷ B)												
ft°	Other(s) X	_ft ³ =ft ³													
OTHER _ U	nit Type A) Tota	al B) Sample													
SUBSAMPLE Bas	ket Tote		l												
TYPES Wei	ght 🔲 Trap		>> Copy to Front >>												
TIPES TCOU	int Other]											
DECKLOA	DING and CUMULA	TIVE SUM		_											
Entire Deckloading	Deckloading Mea	surements													
Haul Range Tota	l Pile Vol. Remainder Pile V	/ol. A) Total Haul Vo													
	ft ³ ft ³	=ft ³													
	Meth.: Estimation Method used t														
Sam	 Wgt. for cumulative sum calcul ditional calculations & use '98' or 														
			-												
	Disp. Total Sampled Code Weight	*Est. Weight per Method Haul													
	oode weight	Wictiod Hadi													
1			1												
2															
 			1												
3			1												
4															
			1												
ib		1													

TWIN TRAWL GEAR CHARACTERISTICS LOG NMFS FISHERIES OBSERVER PROGRAM

NMFS FI	SHERIES C	DBSERVER	PROGRAM
ORTTG	01/01/21		

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GEAR CODE	GEAR NUMBER NET	NAME N	ET TYPE	NET BUILDER	CODEND/LINE	R		GEAR MOUNTED)	EXCLUDER/SEPAR/	TOR DEVICE
					HUNG	CODEND	LINER	ELECTRONICS			
										USED? NO 0	YES 1
					Unknown	0		USED?			_
NET LOCATION	CONSTRUCTION MAT	TERIAL	LENGTH MEAS	UREMENTS	Diamond	1		NO 0			
Port 1	TYPE NET	BODY CODEND LI			Square	2		YES 1		Type Code	
Starboard 2	Unknown 00		Headrope	ft	Square, wrapp	ed 3					_
Other 9	Nylon 01		_ .		Combination	8		NUMBER OF			
DOORS USED?	Poly 02		Footrope/Sweep	ft				TRANSDUCERS		T.E.D. EXTENSION	
	Kevlar® 03		_	· <u></u>	TWINE TYPE	CODEND	LINER				
NO 0	Spectra® 04		Ground Cable	fm						Mesh Size	. in
YES 1	Tenex® 05		_	· <u></u>	Unknown	0					
	Nomex® 06		Bridle	fm	Single	1		TYPE		(circle one) A / E	
WEIGHT OF ONE	Combination 98		STRENGTHENE	ER USED?	Double	2		Unknown	0	ESCAPE OUTLET	
DOOR	Other 99		NO 0	YES 1	Single on Top/			Wired	1		
			CHAFING GEAF	R USED?	Double on Bott	om 3		Wireless	2	USED? NO 0	YES 1
kg			NO 0	_ YES 1	Other	9		Both	3		_
LINER USED?	NETS CONNECTED?	KITE PANEL	FI	SHING CIRCLE							
		KITE USED?			CODEND MES	SH SIZE		BRAND		TYPE	
NO 0	NO 0	Numl	ber#	MESHES				Unknown	0	Unknown	0
YES 1	YES 1	NO 0 Width	hin		mı	m	mm	Furuno®	1	Panel	1
		YES 1 Leng	th in M	ESH SIZEin				Simrad®	2	Opening	2 3
COMMENTS		GROUND GEAR			m	m	mm	Northstar Tech	3	Single Flap	3
		TYPE GRO		LE/ LEG SWEEP				Notus	4	Double Flap	4
		Unknown	00		mı	m	mm	Marport	5	Other	9
		Chain	01					Scanmar	6		
		Cable / Wire	02		m	m	mm	Combination	8		
		Wrapped Cable	03					Other	9		
		Rock Hopper	04		mı	m	mm				
		Roller	05							MESH SIZE	in
		Rubber Cookie	06		LINER MESH S	SIZE					
		Bobbin	07					LOCATION		LENGTH	
		Plate Gear	08		m	m	mm	(check all that app	oly)	# MESHES	ORin
		None	98						_		
		Other	99		m	m	mm	Unknown 0		WIDTH	
								Headrope 1		# MESHES	ORin
					mı	m 	mm	Wings 2			
		SWEEP GEAR	FLOA					Footrope 3			
		Number	Numb		mı	m	mm_	Door 5		SHAPE Type Code	
		D: .						Codend 6			
		Diameter	in Diam	eter in	mı	m	mm	Other 9 [LOCATION Type Cod	e

							DAT	TE LANDED mm/yy	1	
							PAC	GE#	OF	
ADDITIONAL COMMENTS	EXCL	UDER/SEPARATOR DEVICE T	YPE C	ODES:	ESCA	APE OUTLET SHAPE CODES:	I	ESCAPE OUTLET LOC	ATION CODES:	
	00 =	Unknown	24 =	Bent Rod T.E.D.	00 =	Unknown		0 = Unknown		
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	06 =	Compound Nordmore Grate	29 =	Parker Soft T.E.D.	= 80	Triangular		5 = Codend Bottom		
	07 =	Double Nordmore Grate	30 =	Experimental T.E.D.	09 =	Semi-Circle		8 = Combination (Co	mment)	
	08 =	Large Mesh	31 =	Northeast Modified T.E.D.	11 =	Horizontal Cut		9 = Other (Comment)	
	20 =	T.E.D., Unknown	32 =	Large Flat Bar T.E.D.	99 =	Other (Comment)				
	21 =	Standard T.E.D.	98 =	Combination (Comment)						
	22 =	Weedless T.E.D.	99 =	Other (Comment)						
	23 =	Flounder T.E.D.								

OMB Control No.: 0648-0593 Expires On: XX/XX/20XX

OBS/TRIP ID

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NMFS FISHERIES OBSERVER PROGRAM DATE LAND (mm/yy) OBTTH OBHAU OBSPP 01/01/21 PAGE# OF GEAR CODE GEAR# HAUL OBS? ON-EFFORT? CATCH? INC TAKE? WAVE HEIGHT DEPTH, GEAR COND CODE HAUL# WEATHER CODE WIND NO 0 _ NO 0 NO 0 SPEED NO 0 DIRECTION HAUL BEGIN YES 1 YES 1 _____ YES 1 YES 1 fm HAUL LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) DATE TIME NUMBER OF TOW SPEED WIRE OUT WATER TEMP 0 Station 2 INFO mm/dd/yy 24 hours Station 1 Latitude / Bearing Longitude / Bearing TURNS BEGIN 9960 -9960 -HAUL F kn TARGET SPECIES BEGIN CODE NET OBSERVED FISHING Port END Starboard 9960 -9960 -HAUL Both GEAR **Only fill in if gear mounted electronics are used VERTICAL OPENING ONBOARD COMMENTS HORIZONTAL OPENING DOOR SPREAD SAMPLE WEIGHT MULTIPLIER ft **SPECIES** WEIGHT SPECIES WEIGHT SUB-**ESTIMATION** SUB-**ESTIMATION** SAMPLE DISP METHOD SAMPLE DISP METHOD CODE WEIGHT **POUNDS** CODE CODE **POUNDS** D/R CODE NAME CODE D/R NAME WEIGHT CODE

OBS/ TRIP ID

TWIN TRAWL HAUL LOG

CATCH ESTIMATION WORKSHEET NMFS FISHERIES OBSERVER PROGRAM 01/01/21

OBS/TRIP ID

DATE LANDED mm/yy /
HAUII #

01/01/21								1 1/-	OL#						
SORTING METHO	D E	STIMATION MET	HODS	BASKET OR TOTE COUNT OR TALLY											
Check all that apply			tual (Electronic Scale)			**	Unit Types: B = Basket, T = Tote, I								
1 ☐ Picked	05 = Tally		sket or Tote Count		Disp.	**Unit	I	Total Sample		A \A/=:= -4	Total # of	Total Est.			
				Species	Code	Type	List Individual Sample Weights	Weight	# or Sample Units	Avg. Weight per Unit	Units	Weight			
2 ☐ Shoveled	02 = Volume-to-Vo		unt-to-Count		Code	туре		vveignt	Units	per Unit	Units	weigni			
3 ☐ Deckloaded	14 = Weight-to-We	eight 07 = Cu	mulative Sum						1 '	1					
4 ☐ Conveyor System	n 12 = Trap Subsam	nple 10 = Ca	tch Composition Log	1					<u> </u>	- <u> </u>					
5 Pumping System	04 = Captain	06 = Vis	ually Estimated												
9 Cther (Comment			MAREL SCALE	2					1 '	!					
- - - - - - - - - -	99 = Other (Comm	'	CALIBRATION WT												
	OLUME-TO-VOLUM			3					1 '	1					
	AS SEEN FROM ABOVE			3					\vdash						
	AO OLLIVI NOW ABOVE								1 '	1					
Trapezoid W1				4					 !	·_					
	·_# +·_#J×_	ft Xft 〉	0.5 = ft ³	8					1 '	1					
W2/L	Width 1 Width 2 Lo	ength Avg. Depth	Volume	5					1 '						
	†								T T						
	ft X	_ ft X ft	= ft ³	6					1 '	l					
Rectangle W-	→ Width Length	Ava Depth	= ft ³						 						
Triangle 🔨 🔼		7.11g. 2.5pu.	Volumo	7					1 '	1					
I mangle	6.77	# V (1)	.0.5	,					igwdot	<u> </u>					
<u> </u>	: ·_ π x:_	_ ". ^π/	$0.5 = _{\underbrace{\text{Volume}}} - \text{ft}^3$						1 '	1					
w \	Width Length	Avg. Depth	Volume	8					<u> </u>	·					
Full Oval or Half-Oval									1 '	1					
W-[W-[C	ft X	_ ft X ft X	0.785 = . ft ³	9					1 '	[·]					
	── Width Length	Avg. Depth	0.785 = ft ³												
Other Shapes or Combinat	tion: Draw and label all dimer			10					1 '	i					
1			= . ft ³	COMMENTS:											
DEPTHS: Representative de	ft if the catch pile is not in a cl			COMMENTO.											
include a single depth of 0.0	it ii the catch pile is not in a ci	riecker peri or slopes to z	elo. Volunio												
A) Total Haul Vol.	B) Total Subsa	' '	C) Sample Weight	1											
A) Total Haul Vol.	,	•													
l		3 =ft ³	Multiplier												
	_Tote(s) X 2.65 ft ²	³ =ft ³	(A ÷ B)												
ft°	Other(s) X	_ft ³ =ft ³													
OTHER _ U	nit Type A) Tota	al B) Sample													
SUBSAMPLE Bas	ket Tote		l												
TYPES Wei	ght 🔲 Trap		>> Copy to Front >>												
TIPES TCOU	int Other]											
DECKLOA	DING and CUMULA	TIVE SUM		_											
Entire Deckloading	Deckloading Mea	surements													
Haul Range Tota	l Pile Vol. Remainder Pile V	/ol. A) Total Haul Vo													
	ft ³ ft ³	=ft ³													
	Meth.: Estimation Method used t														
Sam	 Wgt. for cumulative sum calcul ditional calculations & use '98' or 														
			-												
	Disp. Total Sampled Code Weight	*Est. Weight per Method Haul													
	oode weight	Wictiod Hadi													
1			1												
2															
 			1												
3			1												
4															
			1												
ib		1													

SCALLOP TRAWL GEAR CHARACTERISTICS LOG NMFS FISHERIES OBSERVER PROGRAM OBSTG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	1
PAGE#	OF

GEAR CODE	GEAR NUMBER NET NA	AME NET	TYPE	NET BUILDER	CODEND/LINE	ER .		GEAR MOUNTED)	EXCLUDER/SEPARA	TOR DEVICE	
					HUNG	CODEND	LINER	ELECTRONICS				
										USED? NO 0	YES 1	
					Unknown	0		USED ?			_	_
NET LOCATION	CONSTRUCTION MATER	RIAL	LENGTH MEAS	UREMENTS	Diamond	1		NO 0				
Port 1	TYPE NET BO	DDY CODEND LINER	3		Square	2		YES 1		Type Code		
Starboard 2	Unknown 00		Headrope	ft	Square, wrapp	ed 3						
Other 9	Nylon 01	<u> </u>			Combination	8		NUMBER OF				
DOORS USED?	Poly 02		Footrope/Sweep	ft		<u> </u>		TRANSDUCERS		T.E.D. EXTENSION		
	Kevlar® 03				TWINE TYPE	CODEND	LINER					
NO 0	Spectra® 04		Ground Cable	fm						Mesh Size	<u> i</u> n	
YES 1	Tenex® 05	<u> </u>			Unknown	0						
	Nomex® 06		Bridle	fm	Single	1		TYPE		(circle one) A / E		
WEIGHT OF ONE	Combination 98		STRENGTHEN		Double	2		Unknown	0	ESCAPE OUTLET		
DOOR	Other 99		NO 0	YES 1	Single on Top/			Wired	1			
			CHAFING GEAF	R USED?	Double on Bott	tom 3		Wireless	2	USED? NO 0	YES 1	
kg			NO 0	_ YES 1	Other	9		Both	3			
LINER USED?	NETS CONNECTED?	KITE PANEL	FI	ISHING CIRCLE								
		KITE USED?			CODEND MES	SH SIZE		BRAND		TYPE		
NO 0	NO 0	Number		MESHES				Unknown	0	Unknown	0	
YES 1	· · <u> </u>	NO 0 Width	in		m	m	mm	Furuno®	1	Panel	1	
]	YES 1 Length	in M	IESH SIZEin				Simrad®	2	Opening	2	
COMMENTS		GROUND GEAR			m	m	mm	Northstar Tech	3	Single Flap	3	
		TYPE GROUND		LE/ LEG SWEEP				Notus	4	Double Flap	4	
					m	m	mm	Marport	5	Other	9	
		Chain 01						Scanmar	6			
		Cable / Wire 02	<u> </u>		m	m	mm	Combination	8			
		Wrapped Cable 03						Other	9			
		Rock Hopper 04			m	m	mm					
		Roller 05								MESH SIZE	in	
		Rubber Cookie 06			LINER MESH	SIZE						
		Bobbin 07						LOCATION		LENGTH		
		Plate Gear 08			m	m	mm	(check all that app	oly)	# MESHES	_OR	in
		None 98 Other 99			m	m	mm	Unknown 0	_	WIDTH		
		Other			mı	···· <u> </u>		Headrope 1		# MESHES	OR	in
					mı	m	mm	Wings 2		# WESHES		—""
		SWEEP GEAR	FLOA		· '''			Footrope 3				
		Number	Numb		mı	m	mm	Door 5		SHAPE Type Code		
			_		<u> </u>			Codend 6		OTIAL Type Code		
		Diameter	in Diam	eter in	mı	m	mm	Other 9		LOCATION Type Code	a	
			-"		<u> </u>			55		LOOK TON Type Cou		_

							DAT	TE LANDED mm/yy	1	
							PAC	GE#	OF	
ADDITIONAL COMMENTS	EXCL	UDER/SEPARATOR DEVICE T	YPE C	ODES:	ESCA	APE OUTLET SHAPE CODES:	I	ESCAPE OUTLET LOC	ATION CODES:	
	00 =	Unknown	24 =	Bent Rod T.E.D.	00 =	Unknown		0 = Unknown		
	01 =	Nordmore Grate	25 =	Conch T.E.D.	01 =	Rectangular		1 = Net Top		
	03 =	Separator Panel	26 =	Flat Bottom T.E.D.	05 =	Trapezoid		2 = Net Bottom		
	04 =	Guiding Device	27 =	Whelk T.E.D.	06 =	Square		3 = Net Side		
	05 =	Raised Footrope	28 =	Flexible T.E.D.	07 =	Diamond		4 = Codend Top		
	06 =	Compound Nordmore Grate	29 =	Parker Soft T.E.D.	= 80	Triangular		5 = Codend Bottom		
	07 =	Double Nordmore Grate	30 =	Experimental T.E.D.	09 =	Semi-Circle		8 = Combination (Co	mment)	
	08 =	Large Mesh	31 =	Northeast Modified T.E.D.	11 =	Horizontal Cut		9 = Other (Comment)	
	20 =	T.E.D., Unknown	32 =	Large Flat Bar T.E.D.	99 =	Other (Comment)				
	21 =	Standard T.E.D.	98 =	Combination (Comment)						
	22 =	Weedless T.E.D.	99 =	Other (Comment)						
	23 =	Flounder T.E.D.								

OMB Control No.: 0648-0593 Expires On: XX/XX/20XX

OBS/TRIP ID

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SCALLOP TRAWL HAUL LOG OBS/ TRIP ID NMFS FISHERIES OBSERVER PROGRAM DATE LAND (mm/yy) OBSTH OBHAU OBSPP 01/01/21 PAGE# OF GEAR CODE GEAR# HAUL# HAUL OBS? ON-EFFORT? CATCH? INC TAKE? WEATHER CODE WIND WAVE HEIGHT DEPTH, GEAR COND CODE NO 0 NO 0 SPEED DIRECTION NO 0 NO 0 HAUL BEGIN YES 1 YES 1 YES 1 YES 1 fm NET OBSERVED HAUL DATE TIME LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXXX) TOW SPEED WIRE OUT INFO Station 2 mm/dd/yy 24 hours Station 1 Latitude / Bearing Longitude / Bearing BEGIN Port 9960 -9960 -HAUL Starboard 2 kn fm BEGIN Both 3 TARGET SPECIES CODE FISHING Aft END Sea Scallops 8009 9960 -9960 -HAUL GEAR SEA SCALLOP NUMBER OF TURNS ONBOARD CLAPPERS OBS? COMMENTS 0___ NO YES WATER TEMP 0 F SAMPLE WEIGHT MULTIPLIER VERTICAL OPENING ** HORIZONTAL OPENING ** DOOR SPREAD ** Only fill in if gear mounted electronics are used. ft ft ft **SPECIES** WEIGHT **SPECIES** WEIGHT SUB-**ESTIMATION** SUB-**ESTIMATION** SAMPLE DISP METHOD SAMPLE DISP METHOD CODE CODE WEIGHT CODE NAME WEIGHT POUNDS CODE D/R CODE POUNDS NAME CODE D/R Sea Scallops 8009 100

CATCH ESTIM	IATIC	on wa	ORKSHEET (SCALL	OP)				Ī	OBS/TRIP ID				
NMFS FISHER					,				DATE LANDE	ED mm	/yy	1		
01/01/21										HAUL#		,,		
SORTING METI	HOD		EST	MATION	METHODS	3	DEC	KLOADING		C	UMUL	ATIVE SU	М	
Check all that app		01 = A	ctual (Spring Sc			Electronic Scale		Deckloading	*Estima	ation Method use	ed to obta	ain species Tota	Samp.Wg	
1 Picked		$05 = T_{0}$				or Tote Count	H	aul Range		ative sum calcula			w all additi	onal
2 Shoveled		-	olume-to-Volume		13 = Count-				caicuia	tions and use '98	s on tron	it.		
3 Deckloaded			/eight-to-Weight		07 = Cumula					Species	Disp.	Total Sampled		Weight
4 Conveyor Sys	stem		rap Subsample			Composition Log	Num	ber of Hauls			Code	Weight	Method	per Haul
5 Pumping Sys		04 = C	•		06 = Visually	y Estimated								
9 Other (Comm	nent)		combination (Cor	,					1					
			ther (Comment)		LINE OD T	NI I W	_							
			BASKET OR T it Types: B = Basket,						2					
	ъ.	1		Total	# of Sample	I	T							
Species	Disp. Code	**Unit Type	List Individual Sample Weights	Sample	Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight	3			-	}	
	Oodo	1,400	Campie Treignie	Weight		Olik	Onito	Worght	l,					
4									4					
1									5					
2						_			3					
2									6					
3														
		V	DLUME-TO-VO	LUME			MARI	L EL SCALE	7					
CATCH PILE SHAP	PE AS							RATION WT	i –		 		1	
Full Oval			<u>-</u>	Rectangle					8					
w	\ \	v 1 /	ırw l											
[ノ ゛	. r—							9					
L	_		Ĺ	Ĺ		S: Representative depout the catch pile. Include								
Other Shapes or Com	binatio	ns: Draw	& label all dimensio	ns in comm		n pile is not in a check	-	•	10					
A1) REMAINDER	VOLU	ME fror	n previous hau	l(s)		•	•	COMMENTS	:		•	•	•	
	le One:		Oval Half-Oval		Depths									
ft X Width Length	ft X		ft (X 0.785)	=	ft³		<u> </u>							
Width Length		Avg. De	ρth (ovals)	Volume										
Dort Circ	le One:		Oval Half-Oval	Dootonalo	Dontho		<u> </u>							
Port Circ	ile One.	. Full	Ovai naii-Ovai	Reclangle	Depths			1						
. ft X	ft X	_	ft (X 0 785)	= .	ft ³		Ι.							
ft X Width Length		Avg. De	pth (ovals)	Volume				1						
A1) TOTAL REMAIND					ft ³]						
A2) TOTAL VOLU	ME aft	er curr	ent haul dumpe	ed										
Starboard Circ	le One:	Full	Oval Half-Oval	Rectangle	Depths									
			* () (O 70F)		e-3									
ft X	.π X_		ft (X 0.785)	=	— !		 -							
Width Length		Avg. De	pth (ovals)	Volume										
Port Circ	le One:	Full	Oval Half-Oval	Rectangle	•_ Depths		<u> </u>	1						
<u>i orc</u>	ic Onc.	· · · · · · ·	Ovai Tiali-Ovai	rtcotarigic	Бериіз			1						
ft X	ft X		ft (X 0.785)	=	ft ³ .									
Width Length		Avg. De		Volume				1						
	=			_			<u> </u>							
A2) TOTAL CATCH F		DLUME (
A) Total Haul Vol	•	Daalaa	B) Total Sub	-		C) Sample	_							
		Baske Tote(s		$7 \text{ ft}^3 =$ $5 \text{ ft}^3 =$		Multipl (A ÷ B								
ft³						(A . E	,							
	_	Other((s) X	ft³ =	ft³									
OTHER	•	Unit Ty	pe A)	Total	B) Sample									
SUBSAMPLE	□ Ва	sket	☐ Tote			l								
TYPES	_		☐ Trap			>> Copy to I	ront >>							
111 20	☐ Co	unt	Other											

SCALLOP TRAWL OFF-WATCH HAUL LOG NMFS FISHERIES OBSERVER PROGRAM OBSTO OBHAU 01/01/21

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DATE LANDED mm/yy	1
DA 65 #	

	BHAU 01/	01/21				PA	GE#	of
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITU	JDE (DD MM.M)	- LORAN (XXXXX)	SEA SCALLOPS
1	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	1 1	· ·	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	1 1	:	9960-		9960-		
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITU	JDE (DD MM.M)	- LORAN (XXXXX)	SEA SCALLOPS
2	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	1 1	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	1 1	:	9960-		9960-		
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITU	IDE (DD MM M)	- LORAN (XXXXX)	SEA SCALLOPS
3	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	BEGIN	,, ,						KEPT (AVERAGE)
HAUL		1 1	:	9960-		9960-		(
LAST	END			9960-		9960-		
HAUL		1 1	:	9960-		9960-		
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITU	JDE (DD MM.M)	- LORAN (XXXXX)	SEA SCALLOPS
4	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	1 1	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	1 1	:	9960-		9960-		
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITU	JDE (DD MM.M)	- LORAN (XXXXX)	SEA SCALLOPS
5	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	BEGIN		:	9960-		9960-		KEPT (AVERAGE)
HAUL LAST	END	/ /	:	9960-		9960-		
HAUL		1 1	•	9900-		9900-		
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITU	JDE (DD MM.M)	- LORAN (XXXXX)	SEA SCALLOPS
6	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	1 1	:	9960-		9960-		KEPT (AVERAGE)
LAST HAUL	END	1 1	:	9960-		9960-		
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITU	JDE (DD MM.M)	- LORAN (XXXXX)	SEA SCALLOPS
7	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	1 1	:	9960-	,	9960-	3	KEPT (AVERAGE)
LAST	END	, ,		0000		0000		
HAUL		1 1	:	9960-		9960-		
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITU	JDE (DD MM.M)	- LORAN (XXXXX)	SEA SCALLOPS
8	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST HAUL	BEGIN	1 1	:	9960-		9960-		KEPT (AVERAGE)
LAST	END	· · ·		9960-		9960-		
III I	END	, ,	:	3300-		3300-		
HAUL WATCH #		/ /		3300-	LATITUDE / LONGITU		- LORAN (XXXXX)	SEA SCALLODS
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITU	JDE (DD MM.M)	` '	SEA SCALLOPS
WATCH # 9	WATCH INFO	/ / DATE mm/dd/yy	TIME 24 hours	Station 1	LATITUDE / LONGITU Latitude / Bearing	JDE (DD MM.M) Station 2	- LORAN (XXXXX) Longitude / Bearing	# OF BASKETS
WATCH # 9	WATCH		TIME			JDE (DD MM.M)	` '	
WATCH# 9 FIRST HAUL LAST	WATCH INFO		TIME 24 hours	Station 1		JDE (DD MM.M) Station 2	` '	# OF BASKETS
WATCH # 9 FIRST HAUL LAST HAUL	WATCH INFO BEGIN END	mm/dd/yy / /	TIME 24 hours :	Station 1 9960-	Latitude / Bearing	JDE (DD MM.M) Station 2 9960- 9960-	Longitude / Bearing	# OF BASKETS KEPT (AVERAGE)
WATCH # 9 FIRST HAUL LAST HAUL	WATCH INFO BEGIN	mm/dd/yy / / DATE	TIME 24 hours :	Station 1 9960-		JDE (DD MM.M) Station 2 9960- 9960-	Longitude / Bearing	# OF BASKETS
WATCH # 9 FIRST HAUL LAST HAUL WATCH # 0 FIRST	WATCH INFO BEGIN END WATCH	mm/dd/yy / /	TIME 24 hours : :	Station 1 9960- 9960-	LATITUDE / LONGITU	JDE (DD MM.M) Station 2 9960- 9960- JDE (DD MM.M)	Longitude / Bearing - LORAN (XXXXX)	# OF BASKETS KEPT (AVERAGE) SEA SCALLOPS
WATCH # 9 FIRST HAUL LAST HAUL WATCH # 0	WATCH INFO BEGIN END WATCH INFO	mm/dd/yy / / DATE	TIME 24 hours : : TIME 24 hours	Station 1 9960- 9960- Station 1	LATITUDE / LONGITU	JDE (DD MM.M) Station 2 9960- 9960- JDE (DD MM.M) Station 2	Longitude / Bearing - LORAN (XXXXX)	# OF BASKETS KEPT (AVERAGE) SEA SCALLOPS # OF BASKETS

SCALLOP DREDGE GEAR CHARACTERISTICS LOG NMFS FISHERIES OBSERVER PROGRAM OBSDG 01/01/21

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GEAR CODE	GEAR NUMBER(s)			If the dredge is fished off the stern, check	s box here
				AFT (A)	
PORT DREDGE (P)					
DREDGE FRAME FRAME TYPE Unknown 0 FRAME HEIGHTin	CHAINS USED? NO YES NUMBER	TWINE TOP MESH SIZE	# MESHES WIDE	PORT DREDGE COMMENTS	
Standard 1 TDD 2 FRAME WIDTHft Other 9	ROCK 0	mmmm mmmm	LONG HUNG Unknown 0	TURTLE CHAIN MAT VERIFICATION Captain confirmed turtle chain mat Intersections connected with links All openings 14" or less	NO YES
CHAIN BAG	TURTLE CHAIN MAT 2	mmmm	Diamond 1 Square 2 Combination 8		
CHAFING GEAR USED? NO 0 YES 1	INSIDE RING SIZE (mm) (5 random measurements)	mmmm	# RINGS ON WHICH TWINE TOP HANGS		
# ROWS IN APRON	TOP OF BAG				
	BOTTOM OF BAG				
STARBOARD DREDGE (S)					
STARBOARD DREDGE (S) DREDGE FRAME		TWINE TOP	# MESHES	STARBOARD DREDGE COMMENTS	
STARBOARD DREDGE (S) DREDGE FRAME FRAME TYPE Unknown 0 FRAME HEIGHT in Standard 1 Standard 1 TDD 2 FRAME WIDTH ft Other 9 ft	CHAINS USED? NO YES NUMBER ROCK 0 1	TWINE TOP MESH SIZEmmmmmm	# MESHES WIDE	TURTLE CHAIN MAT VERIFICATION Captain confirmed turtle chain mat Intersections connected with links	NO YES
DREDGE FRAME FRAME TYPE Unknown 0 FRAME HEIGHT in Standard 1 TDD 2 FRAME WIDTH ft TDD 9 Other 9 TRAME WIDTH TRAME WIDTH The Standard ft	CHAINS USED? NO YES NUMBER ROCK 0 1	MESH SIZEmmmmmmmmmmmm	WIDE LONG HUNG Unknown 0 Diamond 1	TURTLE CHAIN MAT VERIFICATION Captain confirmed turtle chain mat	NO YES
DREDGE FRAME FRAME TYPE Unknown 0 FRAME HEIGHT in Standard 1 TDD 2 FRAME WIDTH ft	CHAINS USED? NO YES NUMBER ROCK 0 1	MESH SIZEmmmmmm	WIDE LONG HUNG Unknown 0	TURTLE CHAIN MAT VERIFICATION Captain confirmed turtle chain mat Intersections connected with links	NO YES

	· · · · · · · · · · · · · · · · · · ·	DATE LANDED IIIII/yy	1
		PAGE #	OF
ADDITIONAL COMMENTS, PORT			
	- 		
ADDITIONAL COMMENTS, STAR	RBOARD DREDGE		
OR OFFICE USE ONLY	l		

OBS/TRIP ID

SCALLOP DREDGE HAUL LOG OBS/ TRIP ID NMFS FISHERIES OBSERVER PROGRAM DATE LAND (mm/yy) OBSDH OBHAU OBSPP 01/01/21 PAGE# OF GEAR CODE GEAR# HAUL# HAUL OBS? ON-EFFORT? CATCH? INC TAKE? WEATHER CODE WIND WAVE HEIGHT DEPTH, GEAR CONDITION NO 0 NO 0 NO 0 NO 0 SPEED DIRECTION HAUL BEGIN CODE 3 2 YES 1 YES 1 YES 1 YES 1 TIME LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) DREDGE TOW SPEED WIRE OUT WATER TEMP HAUL DATE INFO mm/dd/vv 24 hours Station 1 Latitude / Bearing Station 2 Longitude / Bearing OBSERVED BEGIN 9960 -9960 -HAUL Port kn fm BEGIN Starboard TARGET SPECIES CODE FISHING Both END Aft Sea Scallops 8009 9960 -9960 -HAUL GEAR SEA SCALLOP GREY MEATS OR CLAPPERS OBS? ONBOARD PARASITES OBS? COMMENTS NO NO 0 YES YES SAMPLE WEIGHT MULTIPLIER **SPECIES** WEIGHT **SPECIES** WEIGHT SUB-EST SUB-EST SAMPLE DISP METHOD SAMPLE DISP **METHOD** NAME CODE WEIGHT **POUNDS** CODE D/R CODE NAME CODE WEIGHT POUNDS CODE D/R CODE Sea Scallops 8009 100

CATCH ESTIM	IATIC	on wa	ORKSHEET (SCALL	OP)				Ī	OBS/TRIP ID				
NMFS FISHER					,				DATE LANDE	ED mm	/yy	/		
01/01/21										HAUL#		,,		
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SCALLOP DREDGE OFF-WATCH HAUL LOG NMFS FISHERIES OBSERVER PROGRAM OBSDO OBHAU 01/01/21

DATE LANDED mm/yy /	
OBS/TRIP ID	

WATCH#	1170 0170	1		1			-	OL #	
WATCH#	WATCH	DATE		TIME		LATITUDE / LONGITUDE	r` ´	` '	SEA SCALLOPS
1	INFO	mm/dd/yy		24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	BEGIN			:	9960-		9960-		KEPT (AVERAGE)
HAUL L		1	1						
LAST	END			:	9960-		9960-		
HAUL L	ļ	1	1		0000		0000		
WATCH#	WATCH	DATE		TIME		LATITUDE / LONGITUDE	(DD MM.M)	- LORAN (XXXXX)	SEA SCALLOPS
2	INFO	mm/dd/yy		24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	BEGIN				9960-		9960-		KEPT (AVERAGE)
HAUL L	J	1	1	:	9900-		9900-		
LAST	END								
HAUL L	ļ	1	1	:	9960-		9960-		
WATCH#	WATCH	DATE	·	TIME		LATITUDE / LONGITUDE	(DD MM M)	- LORAN (XXXXX)	SEA SCALLOPS
3	INFO	mm/dd/yy		24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
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HAUL) I = N =	,	1						
LAST	END	,	,	:	9960-		9960-		
HAUL WATCH#		/	1						
WATCH#	WATCH	DATE		TIME		LATITUDE / LONGITUDE			SEA SCALLOPS
4	INFO	mm/dd/yy		24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	BEGIN			:	9960-		9960-		KEPT (AVERAGE)
HAUL L	J	1	1						
LAST	END			:	9960-		9960-		
HAUL L		1	1		0000		0000		
WATCH#	WATCH	DATE		TIME		LATITUDE / LONGITUDE	(DD MM.M)	- LORAN (XXXXX)	SEA SCALLOPS
5	INFO	mm/dd/yy		24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	BEGIN				9960-		9960-		KEPT (AVERAGE)
HAUL L	J	1	1	:	9900-		9900-		
LAST	END		•						
	J	1	1	:	9960-		9960-		
HAUL WATCH #	WATCH	 	1		9960-	LATITUDE / LONGITUDE		- LORAN (XXXXX)	SEA SCALLOPS
HAUL WATCH#	WATCH	DATE	I	TIME		LATITUDE / LONGITUDE	(DD MM.M)		SEA SCALLOPS
HAUL WATCH #	INFO	 	1		9960- Station 1	LATITUDE / LONGITUDE Latitude / Bearing	(DD MM.M) Station 2	- LORAN (XXXXX) Longitude / Bearing	# OF BASKETS
HAUL WATCH # 6 FIRST		DATE	1	TIME			(DD MM.M)		
HAUL WATCH # 6 FIRST HAUL	INFO BEGIN	DATE	1	TIME 24 hours	Station 1		(DD MM.M) Station 2		# OF BASKETS
HAUL 6 FIRST HAUL LAST	INFO	DATE	1	TIME 24 hours	Station 1		(DD MM.M) Station 2		# OF BASKETS
HAUL WATCH # 6 FIRST HAUL LAST HAUL	BEGIN BEND	DATE mm/dd/yy /	<i>I I</i>	TIME 24 hours :	Station 1 9960-	Latitude / Bearing	(DD MM.M) Station 2 9960- 9960-	Longitude / Bearing	# OF BASKETS KEPT (AVERAGE)
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LOBSTER, CRAB, & FISH POT GEAR CHARACTERISTICS LOG NMFS FISHERIES OBSERVER PROGRAM OBPTG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	1
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<u> </u>								1 / IOL #	5
GEAR CODE GEAR I	NUMBER(S)			NUMBER OF POTS				COMMENTS	
POT CHARACTERISTICS		ENTRANCE		SURFACE SYSTEMS		ANCHOR(S)			
Shape Code		Number		# of High Flyer(s)		USED? NO 0YES 1			
Side Construction		Inside Ring							
Code		Size .	in	# of Buoys		Number			
DIMENSIONS		Location		•					
Length (in)	Width (in)	Unknown	0			Weight (total) lbs			
		Тор	1	Surface Line Length (avg)	ft	Туре			
Тор		Side	2	3 , 3		Unknown 0)		
· <u>-</u> .		End	3	Type Code		Danforth-style 1			
Bottom		Combination	8			Dead Weight 2	!		
		Other	9	Diameter	/ in	Combination 8	<u> </u>		
Height	in					Other 9)		
GROUNDLINE		BIODEGRADABLE PANE	EL	Mark? NO 0	YES 1				
Length of Line				WEAK LINKS	NO YES				
Btw Pots (avg)	ft	USED? NO 0		USED ON SURFACE? 0	1	ANCHOR LINE	=		
,		_		Number (total)					
Type code		Attachment Type		` ,	·	Length of Line Btwn			
		Unknown	0	Type Code		Anchor & Gangion (avg)	ft		
Diameter /	in	Iron Hog Rings		GANGIONS					
		Degradable Plastic	-		YES 1	Type Code			
ESCAPE VENT NO	YES	Softwood Lathe	3						
USED? 0	1	Uncoated Wire	-	Length (avg)	ft	Diameter	/ in		
		Combination	8	0 (0)					
Number		Other	9	Type Code					
	='							R LOBSTER TR	AP
Shape Code	<u>-</u>			Diameter	/ in	VVIR	KE CON	NSTRUCTION Kitchen	
		BAIT		BUOYLINE					
Length .	in	METHOD		# of Buoyline(s)				Bait Bag To	a
	_					Ток	·	Wi	tth
Height	in	Unknown	0	Length (avg)	ft	Leng	oth .		
Location		String	1						Height
Unknown	0	Bait Bag	2	Type Code					
Тор	1	Metal Ring	3						
Side	2	Not Attached	7	Percent of Type	%/ %		- ~	Bottom	
End	3	Combination	8	(sinking/floating)		Bottom Width			
Combination	8	Other	9	Diameter	in		Biodegi Par	radable Escape nel Vent	
Other	9				\/F0.4		Parlor		
	<u> </u>			Mark? NO 0	_YES 1				

				DATE LANDED mm/yy	1
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	DIAGRAM FOR REFERENCE O	NLY	ADDITIONAL COMMENTS	,	
Surface Surface	⊘ = Weak Link				
Surface System High Flyer Buoy Dist Btwn	Water Line	Buodine			
Gangie	on	Anchor			
Anchor Line	Groundline Distance Btwn Pots				
Photo Credit: NOAA Fisheries Service Northeast Regional Office	(Original image modified to include additional inform	nation).			
]				
	SHAPE CODES:	SIDE CONSTRUCTION CODES:	LINE / GANGION TYPE CODES:	WEAK LINK TYPE CODES:	
	00 = Unknown	0 = Unknown	0 = Unknown	0 = Unknown	
	01 = Rectangular	1 = Wood Lathe	1 = Sinking / Neutrally Buoyant	1 = Rope of Appropriate Breaking	g Strength
	02 = Round / Oval	2 = Plastic Coated Wire	2 = Floating	2 = Off the Shelf	
	03 = 1/2 Round	3 = Twine Mesh	8 = Combination	3 = Overhand Knot	
	04 = Cone	4 = Plastic Mesh	9 = Other	4 = Hog Rings	
	05 = Trapezoid	8 = Combination		8 = Combination	
	99 = Other	9 = Other		9 = Other	
FOR OFFICE USE ONLY	1				

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OBS/TRIP ID

NMFS FISHERIES OBSERVER PROGRAM DATE LAND (mm/yy) OBPTH OBHAU OBSPP 01/01/21 PAGE # OF GEAR CODE INC TAKE? GEAR# HAUL# HAUL OBS? ON-EFFORT? CATCH? WEATHER CODE WIND WAVE HEIGHT DEPTH. GEAR COND CODE NO 0 NO 0 NO 0 NO 0 SPEED DIRECTION HAUL BEGIN YES 1 YES 1 YES 1 fm SET INFO DATE AND TIME LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) ESTIMATED TARGET SPECIES CODE(S) Latitude / Bearing Station 2 Longitude / Bearing SOAK DURATION mm/dd/yy 24 hours Station 1 S BEGIN 9960 -9960 -END NUMBER OF POTS BAIT 9960 -9960 hrs HAUL INFO WATER TEMP LBS KIND TYPE COND H BEGIN 9960 -9960 -HAULED END 9960 -9960 -LOST COMMENTS SET METHOD Unknown Visual Mixed Temperature **Bottom Contours** Other Compass/Loran SAMPLE WEIGHT MULTIPLIER Tide/Current SPECIES WEIGHT **SPECIES** WEIGHT SUB-**ESTIMATION** SUB-**ESTIMATION** SAMPLE DISP SAMPLE DISP METHOD METHOD NAME CODE WEIGHT POUNDS CODE D/R CODE NAME CODE WEIGHT POUNDS CODE D/R CODE

LOBSTER, CRAB, & FISH POT HAUL LOG

OMB Control No.: 0648-0593 Expires On: XX/XX/20XX

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CATCH ESTIMATION WORKSHEET NMFS FISHERIES OBSERVER PROGRAM 01/01/21

OBS/TRIP ID

DATE LANDED mm/yy /
HAUII #

01/01/21								1 1/-	OL#					
SORTING METHO	D E	ESTIMATION METHODS				BASKET OR TOTE COUNT OR TALLY								
Check all that apply		01 = Actual (Spring Scale) 11 = Actual (Electronic Scale)												
1 ☐ Picked	05 = Tally		sket or Tote Count		Disp.	**Unit	I	Total Sample		A \A/=:= -4	Total # of	Total Est.		
				Species			List Individual Sample Weights		# or Sample Units	Avg. Weight	Units	Weight		
2 ☐ Shoveled	02 = Volume-to-Vo		unt-to-Count		Code	Туре		Weight	Units	per Unit	Units	weigni		
3 ☐ Deckloaded	14 = Weight-to-We	eight 07 = Cu	mulative Sum						1 '					
4 ☐ Conveyor Systen	n 12 = Trap Subsam	nple 10 = Ca	tch Composition Log	1					<u> </u>	•				
5 Pumping System	04 = Captain	06 = Vis	ually Estimated											
9 Cther (Comment			MAREL SCALE	2					1 '					
- C	99 = Other (Comm	'	CALIBRATION WT											
	OLUME-TO-VOLUM			3					1 '					
	AS SEEN FROM ABOVE			3					\vdash					
	AO OLLIVI NOW ABOVE			1.					1 '					
Trapezoid W1 c				4					 !	·_				
W1 (ft +ft) x ft X								1 '						
W2/L	Width 1 Width 2 Le	ength Avg. Depth	Volume	5					1 '	·				
<u></u>									T T					
	ft X	_ ft X ft	= ft ³	6					1 '					
Rectangle W-	→ Width Length	Ava Depth	= ft ³						 					
Triangle 🔨 🔼		7.11g. 2.5pu.	Volumo	7					1 '					
Illaligie		# V (1)	. 0 -	1					igwdot	·_				
<u> </u>	::_π×:_	_ ". ^π/	$0.5 = _{\underbrace{\text{Volume}}} - \text{ft}^3$						1 '					
w \	Width Length	Avg. Depth	Volume	8					<u> </u>	•				
Full Oval or Half-Oval									1 '					
W-L W-L	ft X	_ ft X ft X	0.785 = ft ³	9					1 '					
	── Width Length	Avg. Depth	Volume											
Other Shapes or Combinat	tion: Draw and label all dimer			10					1 '					
1			= . ft ³	COMMENTS:										
DEPTHS: Representative de	ptris (it) systematically taken t ft if the catch pile is not in a cl			COMMILITY OF										
include a single depth of 0.0	it ii tile catcii pile is not iii a ci	riecker peri or slopes to z	sio. Volunic	1										
A) Total Hand Val														
A) Total Haul Vol. B) Total Subsample Vol. C) Sample Weight														
I	Basket(s) X 1.47 ft ³ =ft ³ Multiplier													
Tote(s) X 2.65 ft ³ =ft ³ (A ÷ B)														
ft³	Other(s) X	_ft ³ =ft ³												
OTHER U	nit Type A) Tota	al B) Sample												
SUBSAMPLE Bas	ket Tote													
TYPES Wei	ght 🔲 Trap		>> Copy to Front >>											
TTPES Cou	int Other													
DECKLOAI	DING and CUMULA	TIVE SUM		-										
Entire Deckloading	Deckloading Mea	surements												
	I Pile Vol. Remainder Pile V	/ol. A) Total Haul Vo												
	ft ³ ft ³	=ft ³												
	Meth.: Estimation Method used t													
Samp	 Wgt. for cumulative sum calcul Iditional calculations & use '98' or 													
all ad														
	Disp. Total Sampled Code Weight	*Est. Weight per Method Haul												
l-	Code Weight	Welliou Haui												
1]											
2														
			1											
3			1											
4														
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PURSE SEINE GEAR CHARACTERISTICS LOG NMFS FISHERIES OBSERVER PROGRAM ORPSG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	1
PAGE #	OF

OBPOG 01/0									PAGE #		OF
GEAR CODE	GEAR NUMBER(S)		GEAR CHARACTERIS	TICS:			HAULING DEVICE			
					LENGTH		DIAMETER	Unknown	0	Drum	3
								Power Block	1	Other	9
				FLOATLINE		fm	in	Triplex	2		-
				1							
SEINE CHARACTE	DISTICS.			LEADLINE		£	:-			-	
SEINE CHARACTE	KISTICS.			LEADLINE		_fm	•in				
								PURSE RINGS:			
	NET		BUNT	PURSE LINE		fm	•in	TYPE		MATERIAL	-
LENGTH		fm	fm	LEADLINE WEIGHT	Γ		lbs	Unknown	0	Unknown	0
								Round	1	Steel	1
DEPTH		fm	fm	ADDITIONAL	No 0	Υe	s 1	Snap	2	Iron	2
				WEIGHTS				Roller	3	Alloy	3
MESH SIZE		in	. in	WEIGHTO			lbs	Combo	8	Other	9
WESTTSIZE		"'								Other	<u> </u>
T								Other	9		
TWINE SIZE		mm	mm								
							(diagram for refe	erence only)	FLOATLINE		
CONSTRUCTIO	N							/			
MATERIAL										9	
					HITT	A H				//////////////////////////////////////	
Unknown	00			`	ALL	+1+			///////	/ /	
Nylon	01				MITT	4		XXXXXXX	XXXXXXX	BUNT	
Poly						212	NEI A	XXXXXX	XXXXXX		
	02				X	411				X XXXXXX /	
Kevlar®	03					HH		XXXXXXXX	XXXXXX		
Spectra®	04				No.			XXXXXXXXXXXX	XXXXXX		
Combination						V	XXXXX	XXXXXXXXX	XXXX		
Other	99						VVV	VVVV			
								†			
						LE	ADLINE	PURSELINE			
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COMMENTS											
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PURSE SEINE SET LOG OBS/ TRIP ID NMFS FISHERIES OBSERVER PROGRAM DATE LAND (mm/yy) OBPSH OBHAU OBSPP 01/01/21 PAGE# OF GEAR CODE GEAR# HAUL# HAUL OBS? ON-EFFORT? CATCH? INC TAKE? WEATHER CODE WIND WAVE HEIGHT DEPTH, GEAR COND CODE NO 0 NO 0 SPEED DIRECTION HAUL BEGIN NO 0 NO 0 YES 1 YES 1 YES 1 YES 1 LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) SET SPEED SET INFO DATE TIME TARGET SPECIES CODE(S) 24 hours Latitude / Bearing Station 2 Longitude / Bearing mm/dd/yy Station 1 BEGIN 9960 -9960 -END PLANE USED? TIME UP WATER TEMP (Fahrenheit) NO 0 YES 1 NO 0 YES 1 SET BY SUCCESSFUL 0___ FISH PUMPING NO PLANE? SET? BEGIN TIME DOWN YES SET ON FISH END F DEBRIS? LOST? COMMENTS **SPECIES** WEIGHT **SPECIES** WEIGHT ESTIMATION ESTIMATION DISP METHOD METHOD DISP NAME CODE **POUNDS** CODE D/R CODE NAME CODE **POUNDS** CODE D/R CODE

OMB Control No.: 0648-0593 Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET NMFS FISHERIES OBSERVER PROGRAM 01/01/21

OBS/TRIP ID

DATE LANDED mm/yy /
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01/01/21								1 1/-	OL#				
SORTING METHO				BASKET OR TOTE COUNT OR TALLY									
Check all that apply			tual (Electronic Scale)			**	Unit Types: B = Basket, T = Tote, I						
1 ☐ Picked	05 = Tally		sket or Tote Count		Disp.	**Unit	I	Total Sample		A \A/=:= -4	Total # of	Total Est.	
				Species	Code	Type	List Individual Sample Weights	Weight	# or Sample Units	Avg. Weight per Unit	Units	Weight	
2 ☐ Shoveled	02 = Volume-to-Vo		unt-to-Count		Code	туре		vveignt	Units	per Unit	Units	weigni	
3 ☐ Deckloaded	14 = Weight-to-We	eight 07 = Cu	mulative Sum						1 '	1			
4 ☐ Conveyor System	n 12 = Trap Subsam	nple 10 = Ca	tch Composition Log	1					<u> </u>	- <u> </u>			
5 Pumping System	04 = Captain	06 = Vis	ually Estimated										
9 Cther (Comment			MAREL SCALE	2					1 '	!			
- - - - - - - - - -	99 = Other (Comm	,	CALIBRATION WT										
	OLUME-TO-VOLUM			3					1 '	1			
	AS SEEN FROM ABOVE			3					\vdash				
	AO OLLIVI NOW ABOVE								1 '	1			
Trapezoid W1				4					 !	·_			
	·_# +·_#J×_	ft Xft 〉	0.5 = ft ³	8					1 '	1			
W2/L	Width 1 Width 2 Lo	ength Avg. Depth	Volume	5					1 '				
	†								T T				
	ft X	_ ft X ft	= ft ³	6					1 '	l			
Rectangle W-	→ Width Length	Ava Depth	= ft ³						 				
Triangle 🔨 🔼		7.11g. 2.5pu.	Volumo	7					1 '	1			
I mangle	6.77	# V (1)	.0.5	,					igwdot	<u> </u>			
<u> </u>	: ·_ π x:_	_ ". ^π/	$0.5 = _{\underbrace{\text{Volume}}} - \text{ft}^3$						1 '	1			
w \	Width Length	Avg. Depth	Volume	8					<u> </u>	·			
Full Oval or Half-Oval									1 '	1			
W-[W-[C	ft X	_ ft X ft X	0.785 = . ft ³	9					1 '	[·]			
	── Width Length	Avg. Depth	0.785 = ft ³										
Other Shapes or Combinat	tion: Draw and label all dimer			10					1 '	i			
1			= . ft ³	COMMENTS:									
DEPTHS: Representative de	ft if the catch pile is not in a cl			COMMENTO.									
include a single depth of 0.0	it ii the catch pile is not in a ci	riecker peri or slopes to z	elo. Volunio										
A) Total Haul Vol.	B) Total Subsa	' '	C) Sample Weight	1									
A) Total Haul Vol.	,	•											
l		3 =ft ³	Multiplier										
	_Tote(s) X 2.65 ft ²	³ =ft ³	(A ÷ B)										
ft°	Other(s) X	_ft ³ =ft ³											
OTHER _ U	nit Type A) Tota	al B) Sample											
SUBSAMPLE Bas	ket Tote		l										
TYPES Wei	ght 🔲 Trap		>> Copy to Front >>										
TIPES TCOU	int Other]									
DECKLOA	DING and CUMULA	TIVE SUM		_									
Entire Deckloading	Deckloading Mea	surements											
Haul Range Tota	l Pile Vol. Remainder Pile V	/ol. A) Total Haul Vo											
	ft ³ ft ³	=ft ³											
	Meth.: Estimation Method used t												
Sam	 Wgt. for cumulative sum calcul ditional calculations & use '98' or 												
			-										
	Disp. Total Sampled Code Weight	*Est. Weight per Method Haul											
	oode weight	Wictiod Hadi											
1			1										
2													
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3			1										
4													
			1										
ib		1											

NMFS FISHERIES OBSERVER PROGRAM DATE LAND (mm/yy) **OBBSG OBBSW 01/01/21** PAGE# GEAR CODE -GEAR NUMBER(S) NUMBER OF NETS WING CHARACTERISTICS: **BUNT CHARACTERISTICS:** GEAR CHARACTERISTICS: USED? No (0)____ Yes(1)_ USED? NO YES **MEASUREMENTS** Net # Net# Net # Net# Net # LENGTH (ft) Length ft LENGTH ft WASH NET 0 1 HEIGHT (ft) HEIGHT . ft 0___ 1___ Dist Between ft FLOATS MESH SIZE (in) MESH (circle one) ANCHOR (S) 0___ 1___ SIZE IN A / E Type A / E (circle) A/E A / E A / E A / E A / E Number Unknown MESH COUNT, Danforth-style 1 MESH COUNT, VERTICAL Weight (total) lb Dead Weight 2 VERTICAL Combination 8 HANGING RATIO HANGING Other Actual 1 ____ Estimated 2 ____ Actual RATIO TWINE SIZE TWINE (circle one) LEADLINE WEIGHT lbs / net A / E (circle) A/E A / E A / E A / E A / E SIZE A / E MM DETERRENT DEVICES USED? # STRANDS # STRANDS ACTIVE 0 1 Brand(s) Unknown 0 COLOR CODE COLOR CODE Number Dukane NET MATERIAL Airmar NET MATERIAL Frequency kHz Fumunda 3 Unknown Combinatior 8 Unknown 0 Nylon Nylon Other Other Other PASSIVE Number FLOATLINE MATERIAL COLOR CODES COMMENTS Unknown Unknown Multi-color 07 Clear 01 Red 80 Floating (foam core) 1 White 02 Orange 09 Pink 03 Purple 10 04 Twisted polypropylene 2 ____ Black Combinatior 98 Green 05 Other 99 Other 9 ____ Blue 06

BEACH SEINE GEAR / BEACH ANCHORED GILLNET GEAR CHARACTERISTICS LOG

OMB Control No.: 0648-0593 Expires On: XX/XX/20XX

OBS/ TRIP ID

BEACH SEINE / BEACH ANCHORED GILLNET HAUL LOG OBS/ TRIP ID NMFS FISHERIES OBSERVER PROGRAM DATE LAND (mm/yy) OBBSH OBHAU OBSPP 01/01/21 PAGE# OF GEAR CODE GEAR# HAUL# HAUL OBS? MM WATCH? CATCH? INC TAKE? WEATHER CODE WIND WAVE HEIGHT GEAR COND CODE NO 0 _____ NO 0 NO 0 ____ SPEED NO 0 DIRECTION YES 1 YES 1 _____ YES 1 _____ YES 1 ft HAUL INFO DATE (mm/dd/yy) TIME (24 hrs) EST SOAK DUR WATER TEMP TARGET SPECIES CODE(S) BEGIN LATITUDE/LONGITUDE (DD MM.M) - LORAN (XXXXX) Station 1 Latitude/Bearing Station 2 Longitude/Bearing 0 END 9960-9960hrs COMMENTS NUMBER OF NETS IF MM DETERRENTS USED ACTIVE PASSIVE SET HAULED HAULED LOST LOST **SPECIES** WEIGHT SPECIES WEIGHT **ESTIMATION ESTIMATION** DISP METHOD DISP METHOD CODE POUNDS CODE CODE CODE POUNDS CODE CODE NAME D/R NAME D/R

OMB Control No.: 0648-0593 Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET NMFS FISHERIES OBSERVER PROGRAM 01/01/21

OBS/TRIP ID

DATE LANDED mm/yy /
HAUII #

01/01/21								1 1/-	OL#				
SORTING METHO				BASKET OR TOTE COUNT OR TALLY									
Check all that apply			tual (Electronic Scale)			**	Unit Types: B = Basket, T = Tote, I						
1 ☐ Picked	05 = Tally		sket or Tote Count		Disp.	**Unit	I	Total Sample		A \A/=:= -4	Total # of	Total Est.	
				Species	Code	Type	List Individual Sample Weights	Weight	# or Sample Units	Avg. Weight per Unit	Units	Weight	
2 ☐ Shoveled	02 = Volume-to-Vo		unt-to-Count		Code	туре		weight	Units	per Unit	Units	weigni	
3 ☐ Deckloaded	14 = Weight-to-We	eight 07 = Cu	mulative Sum						1 '	1			
4 ☐ Conveyor System	n 12 = Trap Subsam	nple 10 = Ca	tch Composition Log	1					<u> </u>	- <u> </u>			
5 Pumping System	04 = Captain	06 = Vis	ually Estimated										
9 Cther (Comment			MAREL SCALE	2					1 '	!			
- - - - - - - - - -	99 = Other (Comm	,	CALIBRATION WT										
	OLUME-TO-VOLUM			3					1 '	1			
	AS SEEN FROM ABOVE			3					\vdash				
	AO OLLIVI NOW ABOVE								1 '	1			
Trapezoid W1				4					 !	·_			
	·_# +·_#J×_	ft Xft 〉	0.5 = ft ³	8					1 '	1			
W2/L	Width 1 Width 2 Lo	ength Avg. Depth	Volume	5					1 '				
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Rectangle W-	→ Width Length	Ava Depth	= ft ³						 				
Triangle 🔨 🔼		7.11g. 2.5pu.	Volumo	7					1 '	1			
I mangle	6.77	# V (1)	.0.5	,					igwdot	<u> </u>			
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w \	Width Length	Avg. Depth	Volume	8					<u> </u>	·			
Full Oval or Half-Oval									1 '	1			
W-[W-[C	ft X	_ ft X ft X	0.785 = . ft ³	9					1 '	[·]			
	── Width Length	Avg. Depth	0.785 = ft ³										
Other Shapes or Combinat	tion: Draw and label all dimer			10					1 '	i			
1			= . ft ³	COMMENTS:									
DEPTHS: Representative de	ft if the catch pile is not in a cl			COMMENTO.									
include a single depth of 0.0	it ii the catch pile is not in a ci	riecker peri or slopes to z	elo. Volunio										
A) Total Haul Vol.	B) Total Subsa	' '	C) Sample Weight	1									
A) Total Haul Vol.	,	•											
l		3 =ft ³	Multiplier										
	_Tote(s) X 2.65 ft ²	³ =ft ³	(A ÷ B)										
ft°	Other(s) X	_ft ³ =ft ³											
OTHER _ U	nit Type A) Tota	al B) Sample											
SUBSAMPLE Bas	ket Tote		l										
TYPES Wei	ght 🔲 Trap		>> Copy to Front >>										
TIPES TCOU	int Other]									
DECKLOA	DING and CUMULA	TIVE SUM		_									
Entire Deckloading	Deckloading Mea	surements											
Haul Range Tota	l Pile Vol. Remainder Pile V	/ol. A) Total Haul Vo											
	ft ³ ft ³	=ft ³											
	Meth.: Estimation Method used t												
Sam	 Wgt. for cumulative sum calcul ditional calculations & use '98' or 												
			-										
	Disp. Total Sampled Code Weight	*Est. Weight per Method Haul											
	oode weight	Wictiod Hadi											
1			1										
2													
 			1										
3			1										
4													
			1										
ib		1											

LONGLINE GEAR CHARACTERISTICS LOG OBS/TRIP ID NMFS FISHERIES OBSERVER PROGRAM DATE LANDED mm/yy OBLLG 01/01/21 OF PAGE# GEAR CODE GEAR NUMBER(S) NUMBER OF HOOKS SECTION LENGTH NUMBER OF SECTIONS nm MAINLINE LEADERS BUOYLINE SURFACE SYSTEM FLOATS ** USED? AVG HOOKS USED? # OF STRANDS NO 0 ___YES 1 ___ TYPE NO YES NUMBER **BETWEEN** # of Buoylines # of High Flyers DIAMETER ___ mm LENGTH Unknown Length (avg) # of Buoys Polyball TEST Bullet/Daub **TEST** Type Code Surface Line MATERIAL MATERIAL Length (avg) LIGHT STICKS USED? ** DROPLINE ** Percent of Type % / % COLOR (sinking/floating) NO 0 Type Code YES 1 HOOKS ANCHOR USED? LENGTH BRAND MODEL/PATTERN SIZE Diameter Diameter in COLOR NO 0 YES DISTANCE BETWEEN Mark? NO 0 YES 1 Mark? NO 0 YES 1 NUMBER WEIGHT GROUNDLINE NO YES WEAK LINKS NO YES SWIVELS COUNT USED? RADIO NO 0 GANGIONS **LENGTH** COUNT USED? YES 1 ____ **BEACONS** ** USED ON SURFACE? 0 DISTANCE Length (total) # OF SWIVELS/GANGION COUNT BETWEEN Number (total) RADAR

Type Code

USED ON STRING?

Number (total)

Type Code

Type Code

Diameter

MATERIAL

COLOR

lbs

DIAMETER

COMMENTS

TEST

** only record for Pelagic Longline

Mono-filament Nylon

Multi-strand Nylon

REFLECTORS

07

80

09

10

98

99

MATERIAL

0

2

3

4

9

Unknown

Cotton

Steel Wire

COLOR

Clear

White

Pink

Black

Green

Unknown 00

01

02

03

04

05

06

Multi-Color

Red

Orange

Purple

Other

Combination

			OBS/ TRIP ID	
			DATE LAND (mm/yy)	/
			PAGE #	OF
WEAK LINK TYPE CODES: 0 = Unknown 1 = Rope of Appropriate Breaking Strength 2 = Off the Shelf 3 = Overhand Knot 4 = Hog Rings 8 = Combination 9 = Other DIAGRAMS I	LINE TYPE CODES: 0 = Unknown 1 = Sinking / Neutrally Buoyant 2 = Floating 8 = Combination 9 = Other FOR REFERENCE ONLY High Flyer & Buoy Buoyline Groundline & Anchor Gangions	ADDITIONAL COMMENTS		
FOR OFFICE USE ONLY				

NMFS FIS	HERIE	S OBS	SERVER PRO	OGRAM											DATE LA	ND (mm/yy)			/
OBLLH (JBHAL	J OB	SPP 01/01/2	21											PAGE#				OF
GEAR CODE	GEA	R#	HAUL#	HAUL OBS	? 01	N-EFFORT?	CATCH	?	INC TA	KE?	WEATHER C	ODE		WIN	D	WAVE HEIGH	IT DE	EPTH,	GEAR COND
	7 [NO 0		0	NO 0		NO 0				SPEED		DIRECTION		HA	AUL BEGIN	CODE
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														kn			ft	fm	
	DATE	AN				ATITUDE / I							WATER TEMP		TARGET SPECII	ES			CODE(S)
	mm/dd/y	/	24 hours	Station 1	Latitu	de / Bearing		Statio	n 2	Longitu	de / Bearing		}						
S BEGIN	,	,		9960 -				9960	-					o F					
T END **	/	/												_	MAINLINE	91	T ME1	THOD	
LIND	1	/		9960 -				9960	-				_	F	LENGTH **	0.	. 1 IVIL 1	HOD	
H BEGIN **														0		Ur	known		00
A	1	/	:	9960 -				9960	-					F			mpera		01
U END				9960 -				9960						0		Во	ttom C	ontours	02
L	1	1	:	9900 -				9900	-					F		nm Co	mpass	/Loran	03
ITEMS USED?	?				NU	JMBER OF H	HOOKS	BAIT							SET SPEED	Tie	de/Curr	ent	04
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Rattlers			0 1		SE	.T									·_		dy		06
						==		#1					<u> </u>	_	HOOK DEPTH		xed		98
Surface Lights			0 1		HA	ULED		"0							RANGE	Ot	her		99
Additional Line	o Mto		0 1		10	ST		#2						_					
Additional Line	; ** (5		·		_	31		#3							_	fm			
					TE	NDED			PLE WE	GHT C	COMMENTS	-		_			for De	mersal and F	elagic Longline.
WEIGHT OF A	ADDITION	AL							IPLIER							,			gg
LINE WEIGHT			Ibs	;	RE	BAITED													
		SPEC	IES				, L	V	/EIGHT	A = 1 O L L									
					SAMP.		DISP		MET	ATION HOD									
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LONGLINE HAUL LOG

OBS/ TRIP ID

CATCH ESTIMATION WORKSHEET NMFS FISHERIES OBSERVER PROGRAM 01/01/21

OBS/TRIP ID

DATE LANDED mm/yy /
HAUII #

01/01/21								1 1/-	OL#				
SORTING METHO				BASKET OR TOTE COUNT OR TALLY									
Check all that apply			tual (Electronic Scale)			**	Unit Types: B = Basket, T = Tote, I						
1 ☐ Picked	05 = Tally		sket or Tote Count		Disp.	**Unit	I	Total Sample		A \A/=:= -4	Total # of	Total Est.	
				Species	Code	Type	List Individual Sample Weights	Weight	# or Sample Units	Avg. Weight per Unit	Units	Weight	
2 ☐ Shoveled	02 = Volume-to-Vo		unt-to-Count		Code	туре		weight	Units	per Unit	Units	weigni	
3 ☐ Deckloaded	14 = Weight-to-We	eight 07 = Cu	mulative Sum						1 '	1			
4 ☐ Conveyor System	n 12 = Trap Subsam	nple 10 = Ca	tch Composition Log	1					<u> </u>	- <u> </u>			
5 Pumping System	04 = Captain	06 = Vis	ually Estimated										
9 Cther (Comment			MAREL SCALE	2					1 '	!			
- - - - - - - - - -	99 = Other (Comm	,	CALIBRATION WT										
	OLUME-TO-VOLUM			3					1 '	1			
	AS SEEN FROM ABOVE			3					\vdash				
	AO OLLIVI NOW ABOVE								1 '	1			
Trapezoid W1				4					 !	·_			
	·_# +·_#J×_	ft Xft 〉	0.5 = ft ³	8					1 '	1			
W2/L	Width 1 Width 2 Lo	ength Avg. Depth	Volume	5					1 '				
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Rectangle W-	→ Width Length	Ava Depth	= ft ³						 				
Triangle 🔨 🔼		7.11g. 2.5pu.	Volumo	7					1 '	1			
I mangle	6.77	# V (1)	.0.5	,					igwdot	<u> </u>			
<u> </u>	: ·_ π x:_	_ ". ^π/	$0.5 = _{\underbrace{\text{Volume}}} - \text{ft}^3$						1 '	1			
w \	Width Length	Avg. Depth	Volume	8					<u> </u>	·			
Full Oval or Half-Oval									1 '	1			
W-[W-[C	ft X	_ ft X ft X	0.785 = . ft ³	9					1 '	[·]			
	── Width Length	Avg. Depth	0.785 = ft ³										
Other Shapes or Combinat	tion: Draw and label all dimer			10					1 '	i			
1			= . ft ³	COMMENTS:									
DEPTHS: Representative de	ft if the catch pile is not in a cl			COMMENTO.									
include a single depth of 0.0	it ii the catch pile is not in a ci	riecker peri or slopes to z	elo. Volunio										
A) Total Haul Vol.	B) Total Subsa	' '	C) Sample Weight	1									
A) Total Haul Vol.	,	•											
l		3 =ft ³	Multiplier										
	_Tote(s) X 2.65 ft ²	³ =ft ³	(A ÷ B)										
ft°	Other(s) X	_ft ³ =ft ³											
OTHER _ U	nit Type A) Tota	al B) Sample											
SUBSAMPLE Bas	ket Tote		l										
TYPES Wei	ght 🔲 Trap		>> Copy to Front >>										
TIPES TCOU	int Other]									
DECKLOA	DING and CUMULA	TIVE SUM		_									
Entire Deckloading	Deckloading Mea	surements											
Haul Range Tota	l Pile Vol. Remainder Pile V	/ol. A) Total Haul Vo											
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	Meth.: Estimation Method used t												
Sam	 Wgt. for cumulative sum calcul ditional calculations & use '98' or 												
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	Disp. Total Sampled Code Weight	*Est. Weight per Method Haul											
	oode weight	Wictiod Hadi											
1			1										
2													
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ib		1											

CLAM/QUAHOG DREDGE GEAR CHARACTERISTICS LOG NMFS FISHERIES OBSERVER PROGRAM OBCDG 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	1
PAGE #	OF

OBCDG 01/01/21		PAGE #	OF	
GEAR CODE GEAR NUMBER(S)		If the dredge is fished off the stern, check box here	PORT DREDGE COMMENTS	
		AFT (A)		
PORT DREDGE (P)		STARBOARD DREDGE (S)		
	SORTER USED?	DREDGE CAGE SORTER USED?		
HEIGHT WIDTH LENGTH		HEIGHT WIDTH LENGTH		
	NO 0	NO 0		
ininin	YES 1	inin YES 1		
CAGE BOTTOM BAR	NUMBER OF	CAGE BOTTOM BAR NUMBER OF		
BAR DIAMETER SPACING	NOZZLES	BAR DIAMETER SPACING NOZZLES		
inin		inin		
CHAIN BAG		CHAIN BAG		
USED? NO 0 YES 1		USED? NO 0 YES 1		
AVG # OF LINKS BTW 2 RINGS		AVG # OF LINKS BTW 2 RINGS		
LINK STOCK SIZE /		LINK STOCK SIZE /	STARBOARD DREDGE COMMENTS	
INSIDE RING SIZE (mm) (5 random measurements)		INSIDE RING SIZE (mm) (5 random measurements)	OTALISS, W.O. BILLEGE GOMMENTO	
TOP OF BAG		TOP OF BAG	<u>-</u>	
BOTTOM OF BAG		BOTTOM OF BAG	-	
OUTSIDE RING SIZEmm		OUTSIDE RING SIZEmm		
TOWLINE		TOWLINE	†	
TOWLINE TYPE: TOWLINE POSITION	ON:	TOWLINE TYPE: TOWLINE POSITION:		
Unknown 0 Unknown	0	Unknown 0 Unknown 0		
Single 1 Forward	1	Single 1 Forward 1		
	e Knife 2	Bridle 2 Over Top of the Knife 2		
Other 9 Other	9	Other 9 Other 9		
II.			•	

		DATE LANDED mm/yy	1
		PAGE #	OF
TOP VIEW Nozzles Tow Bar Manifold	ADDITIONAL PORT DREDGE COMMENT		OF
Manifold			
FRONT VIEW SIDE VIEW Cage Length Height	Tow		
Dredge Cage Blade/Knife	ADDITIONAL STARBOARD DREDGE CO	MMENTS	
Chain Bag Hose Towline Hauling Wire Blade/Kn Manifold	aife		

OBS/TRIP ID

CLAM/QUAHOG DREDGE HAUL LOG OBS/ TRIP ID NMFS FISHERIES OBSERVER PROGRAM DATE LAND (mm/yy) OBCDH OBHAU OBSPP 01/01/21 OF PAGE# GEAR CODE GEAR# HAUL# HAUL OBS? ON-EFFORT? CATCH? INC TAKE? WEATHER CODE WIND WAVE HEIGHT DEPTH, GEAR COND CODE NO 0 NO 0 NO 0 NO 0 SPEED DIRECTION HAUL BEGIN YES 1 YES 1 YES 1 YES 1 fm LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) WIRE OUT HAUL/FISHING DATE AND TIME WATER TEMP TOW SPEED INFO Station 2 Longitude / Bearing mm/dd/vv 24 hours Station 1 Latitude / Bearing BEGIN fm kn 9960 -9960 -HAUL F TARGET SPECIES CODE BEGIN CLAM/QUAHOG FISHING END CLAPPERS OBS? 9960 -9960 -HAUL GEAR N0 ONBOARD YES : COMMENTS SAMPLE WEIGHT MULTIPLIER **SPECIES** WEIGHT **SPECIES** WEIGHT SUB-SUB-**ESTIMATION ESTIMATION** DISP SAMPLE METHOD SAMPLE METHOD DISP NAME CODE WEIGHT POUNDS CODE D/R CODE NAME CODE WEIGHT POUNDS CODE D/R CODE

OMB Control No.: 0648-0593 Expires On: XX/XX/20XX

CATCH ESTIMATION WORKSHEET NMFS FISHERIES OBSERVER PROGRAM 01/01/21

OBS/TRIP ID

DATE LANDED mm/yy /
HAUII #

01/01/21								1 1/-	OL#				
SORTING METHO				BASKET OR TOTE COUNT OR TALLY									
Check all that apply			tual (Electronic Scale)			**	Unit Types: B = Basket, T = Tote, I						
1 ☐ Picked	05 = Tally		sket or Tote Count		Disp.	**Unit	I	Total Sample		A \A/=:= -4	Total # of	Total Est.	
				Species	Code	Type	List Individual Sample Weights	Weight	# or Sample Units	Avg. Weight per Unit	Units	Weight	
2 ☐ Shoveled	02 = Volume-to-Vo		unt-to-Count		Code	туре		weight	Units	per Unit	Units	weigni	
3 ☐ Deckloaded	14 = Weight-to-We	eight 07 = Cu	mulative Sum						1 '	1			
4 ☐ Conveyor System	n 12 = Trap Subsam	nple 10 = Ca	tch Composition Log	1					<u> </u>	- <u> </u>			
5 Pumping System	04 = Captain	06 = Vis	ually Estimated										
9 Cther (Comment			MAREL SCALE	2					1 '	!			
- - - - - - - - - -	99 = Other (Comm	,	CALIBRATION WT										
	OLUME-TO-VOLUM			3					1 '	1			
	AS SEEN FROM ABOVE			3					\vdash				
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Trapezoid W1				4					 !	·_			
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W2/L	Width 1 Width 2 Lo	ength Avg. Depth	Volume	5					1 '				
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Rectangle W-	→ Width Length	Ava Depth	= ft ³						 				
Triangle 🔨 🔼		7.11g. 2.5pu.	Volumo	7					1 '	1			
I mangle	6.77	# V (1)	.0.5	,					igwdot	<u> </u>			
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w \	Width Length	Avg. Depth	Volume	8					<u> </u>	·			
Full Oval or Half-Oval									1 '	1			
W-[W-[C	ft X	_ ft X ft X	0.785 = . ft ³	9					1 '	[·]			
	── Width Length	Avg. Depth	0.785 = ft ³										
Other Shapes or Combinat	tion: Draw and label all dimer			10					1 '	i			
1			= . ft ³	COMMENTS:									
DEPTHS: Representative de	ft if the catch pile is not in a cl			COMMENTO.									
include a single depth of 0.0	it ii the catch pile is not in a ci	riecker peri or slopes to z	elo. Volunio										
A) Total Haul Vol.	B) Total Subsa	' '	C) Sample Weight	1									
A) Total Haul Vol.	,	•											
<u> </u>		3 =ft ³	Multiplier										
	_Tote(s) X 2.65 ft ²	³ =ft ³	(A ÷ B)										
ft°	Other(s) X	_ft ³ =ft ³											
OTHER _ U	nit Type A) Tota	al B) Sample											
SUBSAMPLE Bas	ket Tote		l										
TYPES Wei	ght 🔲 Trap		>> Copy to Front >>										
TIPES TCOU	int Other]									
DECKLOA	DING and CUMULA	TIVE SUM		_									
Entire Deckloading	Deckloading Mea	surements											
Haul Range Tota	l Pile Vol. Remainder Pile V	/ol. A) Total Haul Vo											
	ft ³ ft ³	=ft ³											
	Meth.: Estimation Method used t												
Sam	 Wgt. for cumulative sum calcul ditional calculations & use '98' or 												
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	Disp. Total Sampled Code Weight	*Est. Weight per Method Haul											
	oode weight	Wictiod Hadi											
1			1										
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CLAM/QUAHOG DREDGE OFF-WATCH HAUL LOG NMFS FISHERIES OBSERVER PROGRAM OBCDO OBHAU 01/01/21

OBS/TRIP ID DATE LANDED mm/yy /		
OBS/TRIP ID	DATE LANDED mm/yy	1
	OBS/TRIP ID	

	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,							
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITUD		- LORAN (XXXXX)	CLAM/QUAHOG
1	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	BEGIN		:	9960-		9960-		KEPT (AVERAGE)
HAUL	_	1	1					
LAST	END		:	9960-		9960-		
HAUL	_	1	1	0000		0000		
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITUD	E (DD MM.M)	- LORAN (XXXXX)	CLAM/QUAHOG
2	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	BEGIN			9960-		9960-		KEPT (AVERAGE)
HAUL L		/	;	9900-		9900-		
LAST	END			0000		0000		
HAUL L		/	;	9960-		9960-		
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITUD	E (DD MM.M)	- LORAN (XXXXX)	CLAM/QUAHOG
3	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	BEGIN	iiiiii/dd/yy			Latitude / Boaring		Longitude / Bearing	KEPT (AVERAGE)
HAUL	DEGIN	,	:	9960-		9960-		INLI I (AVEIVAGE)
LAST	END	/	1					
	END	,	:	9960-		9960-		
WATCH#		7	T11.45			- (22 242 24	100411000000	01.444/01141100
	WATCH	DATE	TIME		LATITUDE / LONGITUD			CLAM/QUAHOG
4	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	BEGIN		:	9960-		9960-		KEPT (AVERAGE)
HAUL	_	1	1					
LAST	END		:	9960-		9960-		
HAUL		1	1					
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITUD	E (DD MM.M)	- LORAN (XXXXX)	CLAM/QUAHOG
5	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	BEGIN		:	9960-		9960-		KEPT (AVERAGE)
HAUL L		1	,	3300-		3300-		
LAST	END			0060		9960-		
HAUL L		/	;	9960-		9960-		
WATCH#	WATCH	DATE	TIME		LATITUDE / LONGITUD	E (DD MM.M)	- LORAN (XXXXX)	CLAM/QUAHOG
WATCH#	WATCH INFO	DATE mm/dd/vv	TIME 24 hours	Station 1	LATITUDE / LONGITUD			CLAM/QUAHOG # OF BASKETS
WATCH # 6	INFO	DATE mm/dd/yy	24 hours	Station 1	LATITUDE / LONGITUD	Station 2	- LORAN (XXXXX) Longitude / Bearing	# OF BASKETS
WATCH#6 FIRST				Station 1 9960-				
WATCH#6 FIRST HAUL	INFO BEGIN		24 hours :	9960-		Station 2 9960-		# OF BASKETS
WATCH #6 FIRST HAUL LAST	INFO		24 hours			Station 2		# OF BASKETS
WATCH #6 FIRST HAUL LAST HAUL	BEGIN END	mm/dd/yy	24 hours : / : / : /	9960-	Latitude / Bearing	Station 2 9960- 9960-	Longitude / Bearing	# OF BASKETS KEPT (AVERAGE)
WATCH # 6 FIRST HAUL LAST HAUL WATCH #	INFO BEGIN END WATCH	mm/dd/yy / DATE	24 hours : / : / TIME	9960-	Latitude / Bearing LATITUDE / LONGITUD	Station 2 9960- 9960- E (DD MM.M)	Longitude / Bearing - LORAN (XXXXX)	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG
WATCH # 6 FIRST HAUL LAST HAUL WATCH #	END WATCH INFO	mm/dd/yy	24 hours : / : / : /	9960-	Latitude / Bearing	Station 2 9960- 9960-	Longitude / Bearing	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS
WATCH # 6 FIRST HAUL LAST HAUL WATCH # 7 FIRST	INFO BEGIN END WATCH	mm/dd/yy / DATE	24 hours : / : / TIME	9960-	Latitude / Bearing LATITUDE / LONGITUD	Station 2 9960- 9960- E (DD MM.M)	Longitude / Bearing - LORAN (XXXXX)	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG
WATCH # 6 FIRST HAUL LAST HAUL WATCH # 7 FIRST HAUL	END WATCH INFO BEGIN	mm/dd/yy / DATE	24 hours : / : / TIME 24 hours	9960- 9960- Station 1	Latitude / Bearing LATITUDE / LONGITUD	Station 2 9960- 9960- E (DD MM.M) Station 2	Longitude / Bearing - LORAN (XXXXX)	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS
WATCH # 6 FIRST HAUL LAST HAUL 7 FIRST HAUL LAST HAUL LAST	END WATCH INFO	mm/dd/yy / DATE	24 hours : / : / TIME 24 hours	9960- 9960- Station 1	Latitude / Bearing LATITUDE / LONGITUD	Station 2 9960- 9960- E (DD MM.M) Station 2	Longitude / Bearing - LORAN (XXXXX)	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS
WATCH # 6 FIRST HAUL LAST HAUL 7 FIRST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL	END WATCH INFO BEGIN	mm/dd/yy / DATE mm/dd/yy /	24 hours : / : / TIME 24 hours : / : / : /	9960- 9960- Station 1	LATITUDE / LONGITUD Latitude / Bearing	9960- (DD MM.M) Station 2 9960- 9960-	- LORAN (XXXXX) Longitude / Bearing	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
WATCH # 6 FIRST HAUL LAST HAUL FIRST HAUL LAST HAUL LAST HAUL LAST HAUL WATCH #	INFO BEGIN END WATCH INFO BEGIN END WATCH	mm/dd/yy / DATE mm/dd/yy / DATE	24 hours ; ; TIME 24 hours ; TIME 7 TIME	9960- 9960- Station 1 9960- 9960-	LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD	Station 2 9960-	- LORAN (XXXXX) Longitude / Bearing - LORAN (XXXXX)	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG
WATCH # 6 FIRST HAUL LAST HAUL WATCH # 7 FIRST HAUL LAST HAUL WATCH # 8	INFO BEGIN WATCH INFO BEGIN END WATCH INFO	mm/dd/yy / DATE mm/dd/yy /	24 hours : / : / TIME 24 hours : / : / : /	9960- 9960- Station 1	LATITUDE / LONGITUD Latitude / Bearing	9960- (DD MM.M) Station 2 9960- 9960-	- LORAN (XXXXX) Longitude / Bearing	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS
WATCH # 6 FIRST HAUL LAST HAUL FIRST HAUL LAST HAUL LAST HAUL LAST HAUL WATCH #	INFO BEGIN END WATCH INFO BEGIN END WATCH	mm/dd/yy / DATE mm/dd/yy / DATE	24 hours : / : / TIME 24 hours : / TIME 24 hours	9960- 9960- Station 1 9960- 9960-	LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD	Station 2 9960-	- LORAN (XXXXX) Longitude / Bearing - LORAN (XXXXX)	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG
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WATCH # 6 FIRST HAUL LAST HAUL WATCH # 7 FIRST HAUL LAST HAUL WATCH # 8 FIRST 8	INFO BEGIN WATCH INFO BEGIN END WATCH INFO	mm/dd/yy / DATE mm/dd/yy / DATE	24 hours : / TIME 24 hours : / TIME 24 hours : / TIME 24 hours	9960- Station 1 9960- 9960- Station 1 9960-	LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD	Station 2 9960-	- LORAN (XXXXX) Longitude / Bearing - LORAN (XXXXX)	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS
WATCH # 6 FIRST HAUL LAST HAUL WATCH # 7 FIRST HAUL LAST HAUL WATCH # 8 FIRST HAUL WATCH #	INFO BEGIN WATCH INFO BEGIN WATCH INFO BEGIN	mm/dd/yy / DATE mm/dd/yy / DATE	24 hours : / : / TIME 24 hours : / TIME 24 hours	9960- 9960- Station 1 9960- 9960-	LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD	Station 2 9960- E (DD MM.M) Station 2 9960- 9960- E (DD MM.M) Station 2	- LORAN (XXXXX) Longitude / Bearing - LORAN (XXXXX)	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS
WATCH # 6 FIRST HAUL LAST HAUL WATCH # 7 FIRST HAUL LAST HAUL WATCH # 8 FIRST HAUL WATCH #	INFO BEGIN WATCH INFO BEGIN WATCH INFO BEGIN	mm/dd/yy / DATE mm/dd/yy / DATE mm/dd/yy	24 hours : / TIME 24 hours : / TIME 24 hours : / TIME 24 hours	9960- Station 1 9960- 9960- Station 1 9960-	LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD	Station 2 9960-	- LORAN (XXXXX) Longitude / Bearing - LORAN (XXXXX) Longitude / Bearing	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS
WATCH # 6 FIRST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL	INFO BEGIN WATCH INFO BEGIN WATCH INFO BEGIN WATCH INFO BEGIN	mm/dd/yy / DATE mm/dd/yy / DATE mm/dd/yy / DATE	24 hours ; ; TIME 24 hours ; TIME 24 hours ; TIME 24 hours ; TIME 24 hours	9960- Station 1 9960- 9960- Station 1 9960-	LATITUDE / LONGITUD Latitude / Bearing LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD Latitude / Bearing	Station 2 9960-	- LORAN (XXXXX) Longitude / Bearing - LORAN (XXXXX) Longitude / Bearing	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
WATCH # 6 FIRST HAUL LAST HAUL WATCH # 7 FIRST HAUL LAST HAUL LAST HAUL WATCH # 8 FIRST HAUL WATCH # 9	INFO BEGIN WATCH INFO BEGIN WATCH INFO BEGIN WATCH INFO BEGIN	mm/dd/yy / DATE mm/dd/yy / DATE mm/dd/yy	24 hours ; ; TIME 24 hours ; TIME 24 hours ; TIME 24 hours ; TIME 24 hours	9960- Station 1 9960- Station 1 9960- Station 1 9960- Station 1	LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD	Station 2 9960-	- LORAN (XXXXX) Longitude / Bearing - LORAN (XXXXX) Longitude / Bearing - LORAN (XXXXXX) Longitude / Bearing	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS
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WATCH # 6 FIRST HAUL LAST HAUL WATCH # 7 FIRST HAUL LAST HAUL LAST HAUL WATCH # 8 FIRST HAUL WATCH # 9 FIRST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST HAUL LAST	INFO BEGIN WATCH INFO BEGIN WATCH INFO BEGIN WATCH INFO BEGIN	mm/dd/yy / DATE mm/dd/yy / DATE mm/dd/yy / DATE	24 hours ; ; TIME 24 hours ; TIME 24 hours ; TIME 24 hours ; TIME 24 hours	9960- Station 1 9960- Station 1 9960- Station 1 9960- Station 1	LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD LATITUDE / LONGITUD	Station 2 9960-	- LORAN (XXXXX) Longitude / Bearing - LORAN (XXXXX) Longitude / Bearing - LORAN (XXXXXX) Longitude / Bearing	# OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE) CLAM/QUAHOG # OF BASKETS
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CATCH COMPOSITION LOG NMFS FISHERIES OBSERVER PROGRAM OBCMP 01/01/21

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	OF
HAUL#	

BASKET#	TIME	<u>:</u>	BASKET#	TIME	:	BASKET#	TIME:
SPECIES	CODE	POUNDS (R/A)	SPECIES	CODE	POUNDS (R/A)	SPECIES	CODE POUNDS (R/A)
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BASKET#		:	_			N OF TOTAL BASKET]	
SPECIES	CODE	POUNDS (R/A)	SPECIES	POUNDS (R/		EIGHT (a/b)	WEIGHT (lbs) (c x d)		
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PAGE#

DISCARD LOG OBS/ TRIP ID NMFS FISHERIES OBSERVER PROGRAM DATE LAND (mm/yy) OBPDQ 01/01/21 PAGE# OF GEAR CODE GEAR# HAUL# Why was the catch discarded on Who estimated the Check off the discard event. REASONS NOT BROUGHT ONBOARD: Describe any Was there an observer onboard this haul? weight of the the other vessel? If yes, provide (CHECK ALL THAT APPLY) reasons why the catch could not be pumped/hauled (CHECK ALL THAT APPLY) discarded catch? the Tripid and Haul Number. onboard. Observer (1) Were there discards When the pumping/hauling process was complete for this tow? Unknown (0) (comment) Captain (2) No (0) Unknown (0) (comment) were you able to see the contents of the codend/ No (0) Market (1) Combination (8) Operational discards (1) Yes (1) bunt? Regulations (2) Tow was partially Yes (1) No (0) Not applicable Unknown (9) released (2) Yes, all contents seen Quality (4) Unknown (9) Was any of the catch on deck (1) TRIPID: Tow was fully pumped to another Was all catch brought to Not brought onboard (5) vessel? released (3) the observed vessel HAUL #: Yes, all/some contents pumped/hauled onboard seen in water (2) Other (9) (comment) Discarded after being No (0) and completely brought onboard (4) sampled? Not applicable Yes (1) Other (9) (comment) No (0) Unknown (9) Not applicable Yes (1) Not applicable CATCH COMPOSITION OF DISCARDED CATCH: Describe the catch composition of the discarded CHALLENGES OBSERVING THIS HAUL: Describe any challenges that occurred with observing this haul: catch and how those determinations were made.

FISHERMEN'S COMMENT LOG NMFS FISHERIES OBSERVER PROGRAM 01/01/21

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DATE LAND (mm/yy)	1
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EVENT DATE (mm/dd/vv)	1 1

SEL NAME	HULL NUMBER	COMMENTS CONTINUED ON BACK?		
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		YES 1		
MENTS	-			
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seq.), which will assist NMFS to collect information that is used in analyses that support the conservation and management of living marine resources and that are required under the Magnuson-Stevens Fishery Conservation and Management Act (MSA), the Endangered Species Act (ESA), the Marine Mammal Protection Act (MMPA), the National Environmental Policy Act (NEPA), the Regulatory Flexibility Act (RFA), Executive Order 12866 (EO 12866), and other applicable law. The public reporting burden for this form is estimated to average 15 minutes per response, including the time for completing, reviewing, and transmitting the information on the form. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Amy Martins, National Marine Fisheries Science Center, Fisheries Sampling Branch, 166 Water Street, Woods Hole MA 02543-1026.

Providing the requested information is voluntary. All identifying data submitted will be handled as confidential material in accordance with NOAA Administrative Order 216-100, Protection of Confidential Fishery Statistics. Other information collected on this form may be subject to public release under various statutes. Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with a collection of information displays a currently valid OMB Control Number. This is an approved information collection under OMB Control No. 0648-0593 through XX/XX/20XX.

PAPERWORK REDUCTION ACT STATEMENT: The information provided on this form will be used by the National Marine Fisheries Service (NMFS) to improve observer training under section 403(b) of the Magnuson-Stevens Act (16 U.S.C. 1801, et

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ASM MEAL REIMBURSEMENT FORM

East West Technical Services LLC

	Trip ID #
Monitor's Name:	
Vessel's Name:	
Captain's Name:	Phone:
Trip Information	
Departure Date:	Return Date:
Departure Time:	Return Time:
	Total Reimbursable Days:
Recipient Information Please Print	· Clearly
Recipient's Name:	
Recipient's Address:	

EWTS shall compensate vessels at a rate of \$40 per day (for every completed 24 hour period) to cover At-Sea Monitor accommodation and food costs while aboard the vessel for trips lasting longer than one 1 day (i.e., 24 hours).

East West Technical Services LLC Phone: 860-910-4957 86 Mumford Road Fax: 860-223-6005

Narragansett, RI 02882 Email: ewtsct@ewts.com



ASM VESSEL REIMBURSEMENT FORM TRIPS LONGER THAN 24 HOURS ONLY

TDID ID "						
TRIP ID #						
		Master on F/V				
for At-Sea Monitor (name)						
Date Sailed: Time Sailed:						
Date Landed:	Time Landed:					
Total Hours at Sea:	hrs					
Total Reimbursement:						
Reimbursement is for trips	s that are greater tha	an 24 hours dock to dock. Fo	r each 24 hour			
period starting when the v	essel sails it will be	reimbursed \$40. The chart b	elow defines the			
reimbursement:						
Total Time at Sea	Vessel	Total Time at Sea	Vessel			
	Reimbursement		Reimbursement			
0 to < 24 hours (< 1 day) 24 to 47.9 hours (1 day)	\$0 \$40	168 to 191.9 hours (7 days) 192 to 215.9 hours (8 days)	\$280 \$320			
48 to 71.9 hours (2 days)	\$80	216 to 239.9 hours (9 days)	\$360			
72 to 95.9 hours (3 days)	\$120	240 to 267.9 hours (10 days)	\$400			
96 to 119.9 hours (4 days)	\$160	264 to 287.9 hours (11 days)	\$440			
120 to 143.9 hours (5 days)		288 to 311.9 hours (12 days)	\$480			
144 to 167.9 hours (6 days)	\$240	312 to 335.9 hours (13 days)	\$520			
Monitor's Signature		Date				
Captain's Signature		Date				
Please make check payal	ole to					
Attn:						
F/V						
Street						
City, State, Zip						
MAIL TO: AIS, Inc. P.O. Box New Bedf	2093 ford, MA 02741					

SECTION J ATTACHMENTS

Captain Interview Questions

Tripid		
Date of Trip(s) Date of Interview		
Vessel Name		
Operator Name		
Was the at-sea monitor on time?	Y	N
Did the at-sea monitor clearly explain his/her duties to you?	Y	N
Did the at-sea monitor give you the At-sea monitor Duties Sheet?	Y	N
Did the at-sea monitor explain their duties in regards to incidental takes of marine mammals, turtles and sea birds?	Y	N
Was there a marine mammal, turtle or seabird caught during this trip?	Y	N
Did the at-sea monitor measure the gear (i.e. codend if this is a trawl trip)?	Y	N
Did the at-sea monitor weigh the catch?	Y	N
Did the at-sea monitor take lengths (or shell heights) and biological samples (if required) from the catch?	Y	N
Did the at-sea monitor wear their PFD (life vest) while on deck?	Y	N
Did the at-sea monitor hinder your operations in any way?	Y	N
Did the at-sea monitor get along well with you and your crew?	Y	N
Is the at-sea monitor welcome on your vessel again?	Y	N
Did the at-sea monitor offer the captain a comment card?	Y	N

Trip Data Release Form

PAPERWORK REDUCTION ACT STATEMENT: The information provided on this form will be used to ensure that the data for a specific trip is not provided to a person who does not have authority to obtain that data under the confidentiality requirements of the Magnuson-Stevens Fishery Conservation and Management Act (MSA) and the Marine Mammal Protection Act (MMPA). Meeting those confidentiality requirements are critical for collecting information that is used in analyses that support the conservation and management of living marine resources and that are required under the MSA, the Endangered Species Act (ESA), the MMPA, the National Environmental Policy Act (NEPA), the Regulatory Flexibility Act (RFA), Executive Order 12866 (EO 12866), and other applicable laws. The public reporting burden for this form is estimated to average 2 minutes per response, including the time for completing, reviewing, and transmitting the information on the form. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Amy Martins, National Marine Fisheries Service, Northeast Fisheries Science Center, Fisheries Sampling Branch, 166 Water Street, Woods Hole, MA 02543-2266. Providing the requested information is required to deliver the copy of the trip to the requested location and to release the trip data. The information on this form will be kept confidential as required under Section 402(b) of the MSA (18 U.S.C. 1881a(b)) and regulations at 50 C.F.R Part 600, Subpart E. Notwithstanding any other provision of the law, no person is required to respond to, nor shall any person be subject to a penalty for failure to comply with a collection of information subject to the requirements of the Paperwork Reduction Act, unless that collection of information displays a currently valid OMB Control Number. This is an approved information collection under OMB Control No. 0648-0593 through XX/XX/20XX.

Policy for Data Requests of NMFS Observer-Obtained Information

- 1. The only individuals who may request and receive data include: the owner(s), or the captain acting as an authorized representative for the owner(s), or a vessel participating in the National Marine Fisheries Service (NMFS) Northeast Fisheries Science Center (NEFSC) Observer Program. No other individuals may be issued any data under this policy.
- 2. Any data request must be submitted in writing on a form letter which may be obtained from a NMFS Observer, or the address below. Two signatures are required on this letter: that of the individual requesting the data, and that of the individual releasing the data. All letters must then be returned to the following address:

Chief, Fisheries Sampling Branch National Marine Fisheries Service Northeast Fisheries Science Center 166 Water Street Woods Hole, MA 02543-1097

Any questions or other requests relating to data release should also be directed to the above address.

- 3. It should be understood that upon release of the requested data, the recipient then becomes responsible for it.
- 4. The individual signing the letter as the "releaser" must issue the information in compliance with this policy.
- 5. Data may not be released upon an oral request, or without first completing and signing the authorized release letter mentioned above.
- 6. Field diaries do not meet the specifications of releasable data under the policy. No field diaries may be copied for, or reviewed by, vessel owners or captains.
- 7. Release of data for trips in which more than one vessel participated (i.e., pair trawl trips) may only occur if both vessel owners or captains complete and sign data release letters.
- 8. Any requests for historical data (i.e., data that an observer has already mailed in) should be forwarded to the address above.
- 9. All letters should be completed in pen, not pencil.

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NMFS FISHERIES OBSERVER PROGRAM TRIP DATA RELEASE FORM

Request Date/	/			
Observer Trip ID #				
Vessel Name				
USCG Doc #				
Date Landed/	/			
<u>PRINT</u> Name		Signat	ure	
PRINT Mailing Address:				
Copies Released By:	Ε	Oate I	Edited? Yes	No
(For NMFS Office Use)				
(For TWIFS Office Osc)				
TEAR AT PERFORATION A	ND DETAIN DELOW:	SECTION EOD V	VOLID DECO	DDC
TEAR ATTENFORATION A	ND RETAIN BELOW,	SECTION FOR I	OUR RECO	KDS
The data was gooding good have			1	
The data you receive may be p	•		eu.	
Observer Trip ID #				
Date Requested				
Mail Request To		·	s or Comments:	, <u>.</u> <u>-</u>
	Sampling Branch	Gina Shie	eld	
National Marine	Fisheries Service	508-495-2	2139	
Northeast Fisher	ies Science Center			
166 Water Street	Ċ			
Woods Hole, Ma	A 02543-1097			

Dear Vessel Owner, Operator, or Fisherman:

NOAA's National Marine Fisheries Service has selected your fish	ing vessel,
F/V(United States Coast Guard (USCG) documentation or state # observer on:) to take an
□ your next fishing trip;	
all fishing trips between the dates of, or when fishing System (VMS) declaration code,	under the following Vessel Monitoring
You must notify the Observer Service Provider representative not before the start of the vessel's next fishing trip. If you received fishing trip, you must notify the Observer Service Provider immed	this letter on the same day as a planned
You must contact:	
at phone number	·
(Contact name, completed by NMFS, Observer Service Provider staff, or	observer and contact phone number)

FREQUENTLY ASKED QUESTIONS:

Am I legally required to carry an observer?

Yes - <u>if your vessel has certain federal permits</u>, or <u>you are participating in certain fisheries</u>, your vessel is required to carry an observer when selected for observer coverage.

- Any vessel issued a federal permit to fish for Atlantic sea scallops, Northeast multispecies, monkfish, skates, Atlantic mackerel, squid, butterfish, scup, black sea bass, bluefish, spiny dogfish, Atlantic herring, tilefish, Atlantic deep-sea red crab, summer flounder (moratorium permit), and American lobster is required to carry an observer when selected for observer coverage.
- Any vessel participating in a state or Federal Category I or II fisheries, occurring in either state or
 federal waters, which appear in the Marine Mammal Protection Act List of Fisheries is required
 to carry an observer when selected for observer coverage. To see if your fishery is listed, please
 visit http://www.nmfs.noaa.gov/pr/interactions/lof/ or call the Greater Atlantic Regional Fisheries
 Office Protected Resources Division at 978-281-9328 for more information.
- Under the authority of the Endangered Species Act, 16 U.S.C. 1531, NMFS identifies U.S. fisheries required to take observers upon request for the purpose of learning more about sea turtle interactions. For more information visit: www.nmfs.noaa.gov/pr/species/turtles/observers.htm.

If your vessel is requested to carry an observer or selected for observer coverage, your vessel may not lawfully fish in any fishery noted above unless an observer is on board, or the observer requirement is waived.

Why am I being notified through a Selection Letter?

You have been sent this letter to tell you that your vessel has been selected for observer coverage. Please call the Observer Service Provider contact listed on this letter to discuss your fishing activity. The Observer Service Provider will either send an observer to your vessel, or will verbally waive your next trip for coverage if an observer is not available.

Are there other ways that I may be notified my vessel has been selected?

Yes, in addition to being selected for observer coverage by letter, your vessel may also be selected in person or by telephone by someone from NMFS, Observer Service Provider staff, or by an observer, acting on behalf of the Regional Administrator.

What are the Vessel Safety Requirements I must meet to carry an Observer?

A vessel must meet the requirements outlined in the most current USCG publication 'Federal Requirements for Commercial Fishing Industry Vessels' available at: http://www.fishsafe.info/. All certificates, equipment and equipment servicing, registrations, and hydrostatic releases must be current/not expired.

• USCG Commercial Fishing Vessel (CFV) Safety Examination decal or a USCG certificate of examination with proof of passing the USCG CFV Safety Examination

In order to receive a commercial fishing vessel safety decal, contact the USGC in your region at:

(Observer Provider please include contact number of Commercial Fishing Vessel Safety exam coordinators and region)

- Personal flotation devices/immersion suits for all crew onboard the vessel (note—observers will provide their own)
- Ring buoys or other allowable flotation
- Distress signals (emergency signaling flares night light and smoke or 3 day/night flares < 3 miles, 3 parachute, 6 hand held, 3 smoke > 3 miles)
- Fire extinguishing equipment
- Emergency position indicating radio beacon (EPIRB) registered to the vessel, including NOAA Search and Rescue Satellite Aided Tracking registration, battery, and hydrostatic release
- Survival craft, with sufficient capacity to accommodate the total number of crew on board, including the observer(s).

Who will verify that my vessel safety requirements are up-to-date before sailing?

Once a vessel is selected for coverage, the assigned observer is required to review emergency instructions with the vessel operator and complete a pre-trip safety check of the vessel's emergency equipment prior to departing on a trip. The observer will be verifying that the equipment, registrations and certificates meet the requirements outlined above. If a vessel fails to pass the required pre-trip safety check, the regulations at 50 CFR 600.746(i) prohibit a vessel from leaving port without an observer until the deficiency has been resolved or a waiver is granted by the observer program.

What if my life raft doesn't have enough capacity to carry my assigned observer?

If selected for observer coverage, it is your responsibility to discuss the capacity of your life raft with the assigned observer or the Observer Service Provider. If your life raft is not large enough to carry the observer, you may request that the Observer Service Provider provide a Valise style life raft. Requests for Valise style life rafts may be granted, if feasible. DO NOT ASSUME THE OBSERVER WILL HAVE HIS/HER OWN LIFE RAFT. If you are selected for observer coverage and an observer cannot deploy because your vessel has inadequate life raft capacity, it is unlawful for your vessel to fish.

What are my requirements for carrying an Observer?

In addition, the regulations at § 648.14(e) also prohibit harassing, interfering, or assaulting an observer; refusing to carry an observer; failing to provide information notification, accommodations, access or reasonable assistance to an observer; and submitting false information to the observer program.

Who do I contact for more information?

Please contact Amy Martins, Branch Chief, Northeast Fisheries Observer Program, at 508-495-2266 with questions or concerns.

Sincerely,

John K. Bullard Regional Administrator

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