



**UNITED STATES DEPARTMENT OF COMMERCE**  
**National Oceanic and Atmospheric Administration**  
NATIONAL MARINE FISHERIES SERVICE  
Northeast Fisheries Science Center  
166 Water Street  
Woods Hole, MA 02543-1026

**Data Waiver Form**

I, \_\_\_\_\_, owner or authorized representative of the  
fishing vessel, \_\_\_\_\_, CG Documentation # \_\_\_\_\_,

submit this form under Section 402(b) (1) (F) of the Magnuson-Stevens Fishery Conservation and Management Act, 16 U.S.C. 1881a(b) (1) (F), to authorize the release of observer information collected for fishery conservation and management purposes aboard the aforementioned vessel to:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Observer Data Waiver Period:

\_\_\_\_\_

Comments:

\_\_\_\_\_  
\_\_\_\_\_

\_\_\_\_\_  
Owner/Authorized Representative Signature

\_\_\_\_\_  
Date Signed

**Please return to:**

Amy Van Atten, Branch Chief  
Fisheries Sampling Branch  
NOAA Fisheries  
166 Water Street  
Woods Hole, MA 02543

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](mailto: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 Number: \_\_\_\_\_

Address: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip Code: \_\_\_\_\_

Phone: \_\_\_\_\_ Email: \_\_\_\_\_

Signature: \_\_\_\_\_ Date Signed: \_\_\_\_/\_\_\_\_/\_\_\_\_  
Day Month Year

**Section 2: Data Request Details**

Purpose, Use, and Description of request:

Data Requested:

**Fishery Monitoring Operations**

- Observer/At-Sea Monitor
- Electronic Monitoring
- Portside Sampling

**Study Fleet**

- Vessel Logbook Data
- GTE (TD/GPS) Data

**Cooperative Research Surveys**

- Bottom Longline Survey

Date Range: \_\_\_\_\_ Spatial Range: \_\_\_\_\_

Fisheries: \_\_\_\_\_ Gear Types: \_\_\_\_\_



Specific Vessels : \_\_\_\_\_  
(Names and Permits)

Data Elements: \_\_\_\_\_  
\_\_\_\_\_

### Section 3: Authorization

Request Approved

Request Denied

\_\_\_\_\_  
Approved By

\_\_\_\_\_  
Signature

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_  
Day Month Year

\_\_\_\_\_  
NEFSC-ISSO Name

\_\_\_\_\_  
Signature

Date: \_\_\_\_/\_\_\_\_/\_\_\_\_  
Day Month Year

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](mailto:nefsc.svc.dis@noaa.gov).

#### Privacy Act Statement

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**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 (ACCSPP) 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.

**Disclosure:** Voluntary.

Vessel name

[Grid for Vessel name]

Trip ID

[Grid for Trip ID]

Hull number

[Grid for Hull number]

Date landed (MM/DD/YYYY)

[Grid for Date landed]

Northeast Fisheries Science Center, Fisheries Sampling Branch  
**PRE TRIP VESSEL SAFETY CHECKLIST (PTVSC)**

For each safety item shade  in the appropriate box.

Y = yes, N = no, NR = not required

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.

Please comment on any safety or stability related issues in the provided spaces on the back of the PTVSC

Y    N    NR

**Vessel Orientation**

**Current USCG Commercial Fishing Vessel Safety Examination Decal**

**\*Required for all vessels carrying an observer on board**

Safety Decal Number [Grid] Expiration [Grid] (MM/YY)

**Emergency Position Indicating Radio Beacon (EPIRB)**

**\*Required for all vessels operating beyond 3 miles**

Hydrostatic release service expiration [Grid] (MM/YY)

Battery expiration [Grid] (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 [Grid] (MM/YY)

**Life raft(s)**

**\*Not required for vessels within 12 mi. of coast, ≤ 3 people and length <36'.**

Hydrostatic release service expiration [Grid] (MM/YY)

Raft service (repack) expiration [Grid] (MM/YY)

Capacity [Grid]

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.

**Life rings**

**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.**

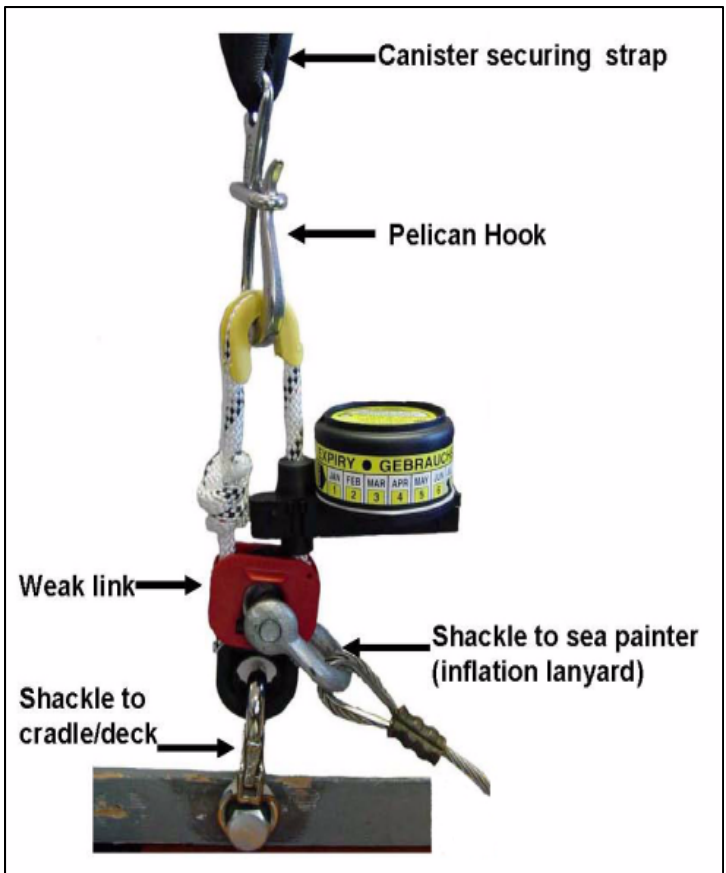
Did you provide any additional comments?

The following is a suggested list of examples that you should check or consider while doing a vessel walk through. 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 vessel 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?
- Do the fishing practices involve a pattern of towing heavy bags or dumping the catch to one side of the vessel?



**Safety Comments**

**Stability comments**

**WHEN WAS THE LAST TIME YOU CHECKED YOUR PERSONAL SAFETY EQUIPMENT?**

Check the appropriate box for the method that was used to verify EPIRB expiration dates:

I visually inspected the EPIRB; Record EVIC information below if one was issued  
 EVIC number       Date issued     (MM/YY)

I used a previously issued EVIC; Record EVIC information below  
 EVIC number       Date issued     (MM/YY)

I used approved USCG documentation that was issued within the last 90 days (comments & expiration dates required)

Signature \_\_\_\_\_

Date \_\_\_\_\_

**VESSEL AND TRIP INFORMATION LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBTRP OBTRG OBTRS 01/01/21**

IN-OFFICE	DATE RECEIVED	
	EDITED BY	
	DEPLOYMENT ID	

OBS/TRIP ID <input type="text"/>	PROGRAM CODE <input type="text"/>	SECTOR ID <input type="text"/>	FLEET <input type="text"/>	VENDOR ID <input type="text"/>	INCIDENTAL TAKES <input type="checkbox"/> N <input type="checkbox"/> B <input type="checkbox"/> M <input type="checkbox"/> T	AGE STRUCTURES <input type="checkbox"/> Env. <input type="checkbox"/> Froz.	WHOLE FISH <input type="checkbox"/> N <input type="checkbox"/> Y	FIELD DIARY <input type="checkbox"/> N <input type="checkbox"/> Y	COMMENT LOG <input type="checkbox"/> N <input type="checkbox"/> Y
-------------------------------------	--------------------------------------	-----------------------------------	-------------------------------	-----------------------------------	---	--	---	--	--

VESSEL NAME # 1	VESSEL NUMBER # 1	VESSEL PERMIT # 1	PORT SAILED (CITY, STATE) CODE	DATE SAILED mm/dd/yy	TIME SAILED 24 h
				/ /	:

VESSEL NAME # 2	VESSEL NUMBER # 2	VESSEL PERMIT # 2	PORT LANDED (CITY, STATE) CODE	DATE LANDED mm/dd/yy	TIME LANDED 24 h
				/ /	:

HOME PORT (CITY, STATE) CODE	EXP. TRIP DUR day(s)	CREW SIZE (INCLUDE CAPT)	DEALER'S NAME	VTR SERIAL NUMBER	STEAM TIME (calc) hrs
					__ . __ hrs

TRIP TYPE	TRIP COSTS									
Single Gear 1	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 2	__ . __ tn	__ gal	\$ __ . 00	\$ __ . 00	\$ __ . 00	\$ __ . __	\$ __ . __	\$ __ . 00	\$ __ . 00	\$ __ . 00

GEAR INFORMATION (IN USE & STOWED)								TIME LOST *	
PRIMARY GEAR	CODE	USED?	# ONBRD	# SOAK	CAPT EXP (yrs)	TARGET SPECIES	CODE(S)	REASON	AMOUNT
		No 0 Yes 1							__ . __ hrs
OTHER GEAR 1		No 0 Yes 1							__ . __ hrs
OTHER GEAR 2		No 0 Yes 1							__ . __ hrs
OTHER GEAR 3		No 0 Yes 1							__ . __ hrs

# TRIP HAULS	# UNOBSERVED HAULS	PRIMARY SPECIES LANDED	PHOTOS? <input type="checkbox"/> N <input type="checkbox"/> Y	SCALLOP TRIPS ONLY		
				SOAKED?	# OF BAGS	AVERAGE WGT/BAG
				No 0 Yes 1		__ lb

COMMENTS       	DATE ARRIVED AT DOCK mm/dd/yy	TIME ARRIVED 24 h
	/ /	:
	DATE DISEMBARKED mm/dd/yy	TIME DISEMBARKED 24 h
	/ /	:

Only fill in for first trip of deployment

Only fill in for last trip of deployment

\* Fields that require a comment

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

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE		GEAR NUMBER(S)		NUMBER OF NETS		MESH SIZE(S)		NET COLOR											
<input type="text"/>		<input type="text"/>		<input type="text"/>		<table border="1"> <tr> <th># OF NETS</th> <th>MESH SIZE (inches)</th> </tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> <tr><td> </td><td> </td></tr> </table> <p>OR</p> <p>MESH SIZE RANGE</p>		# OF NETS	MESH SIZE (inches)									Unknown 00 Clear 01 White 02 Pink 03 Black 04 Green 05 Blue 06 Multi-color 07 Red 08 Orange 09 Purple 10 Combination 98 Other 99	
# OF NETS	MESH SIZE (inches)																		
<b>AVERAGE NET:</b> LENGTH _____ ft HEIGHT (endline) _____ . _____ ft MESH COUNT _____ VERTICAL _____ HANGING _____ RATIO _____ / _____ TWINE SIZE _____ FLOATLINE MATERIAL _____		<b>USED?</b> FLOATS NO 0 YES 1 TIE DOWNS NO 0 YES 1 (all nets) / 2 (not all nets) SPACE(S) BETWEEN NETS ≥2.5ft NO 0 YES 1 DROPLINES NO 0 YES 1 ADDITIONAL WGTS NO 0 YES 1 ANCHOR(S) NO 0 YES 1 SECURING METHOD(S) None 1 Ocean Bottom 2 Vessel/Ocean Bottom 3 Vessel Only 4		<b>MEASUREMENTS</b> Dist Between _____ ft Length _____ . _____ ft Number Width _____ ft Length _____ ft Weight _____ lbs Type Unknown 0 Danforth-style 1 Dead Weight 2 Combination 8 Other 9		<b>SURFACE SYSTEM</b> # of High Flyer(s) _____ # of Buoy(s) _____ Surface Line Length (avg) _____ ft Type Code _____ Diameter _____ / _____ in Mark? NO 0 YES 1		<b>BUOYLINE</b> # of Buoyline(s) _____ Length (avg) _____ ft Type Code _____ Percent of Type (sinking / floating) % / % Diameter _____ / _____ in Mark? NO 0 YES 1											
LEADLINE WEIGHT _____ . _____ lbs/ net		<b>MM DETERRENT DEVICES</b> ACTIVE USED? NO 0 YES 1 Number _____ Frequency _____ kHz PASSIVE USED? NO 0 YES 1 Number _____		Brand(s) Unknown 00 Dukane 01 Airmar 02 Fumunda 03 Future Oceans LED 04 Combination 98 Other 99		<b>GROUNDLINE</b> USED? NO 0 YES 1 Length (total) _____ ft Type Code _____ Diameter _____ / _____ in		<b>WEAK LINKS</b> USED ON SURFACE? NO 0 YES 1 Number (total) _____ Type Code _____ USED ON STRING? NO 0 YES 1 Number (total) _____ Type Code _____											
<b>COMMENTS</b> <input type="text"/>																			

**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

**LINE TYPE CODES:**

0 = Unknown  
 1 = Sinking / Neutrally Buoyant  
 2 = Floating  
 8 = Combination  
 9 = Other

**ADDITIONAL COMMENTS**

DIAGRAMS FOR REFERENCE ONLY

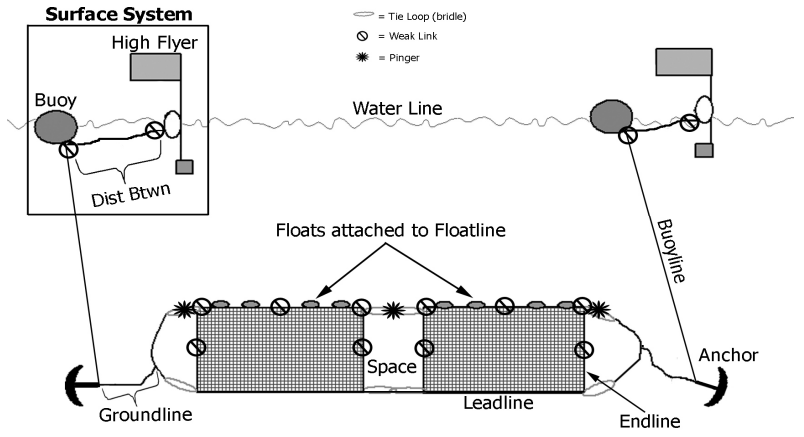
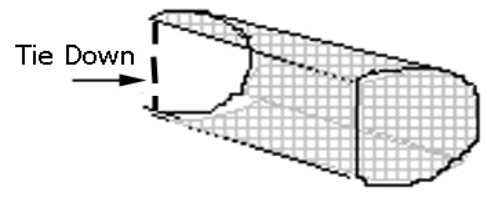


Photo Credit: NOAA Fisheries Service Northeast Regional Office (Original image modified to include additional information).

FOR OFFICE USE ONLY





**GILLNET HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBGGH OBHAU OBSPP 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE <input type="text"/>	GEAR # <input type="text"/>	HAUL # <input type="text"/>	HAUL OBS? NO 0 <input type="text"/> YES 1 <input type="text"/>	ON-EFFORT? NO 0 <input type="text"/> YES 1 <input type="text"/>	MM WATCH? NO 0 <input type="text"/> YES 1 <input type="text"/>	CATCH? NO 0 <input type="text"/> YES 1 <input type="text"/>	INC TAKE? NO 0 <input type="text"/> YES 1 <input type="text"/>	WEATHER CODE	WIND SPEED <input type="text"/> kn DIRECTION <input type="text"/> °	WAVE HEIGHT <input type="text"/> ft	DEPTH, HAUL BEGIN BOTTOM <input type="text"/> fm LEADLINE <input type="text"/> fm
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SET INFO	DATE AND TIME mm/dd/yy 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				ESTIMATED SOAK DURATION	TARGET SPECIES	CODE(S)	GEAR COND CODE
S E T	BEGIN / / : END / / :	Station 1 9960 -	Latitude / Bearing	Station 2 9960 -	Longitude / Bearing	<input type="text"/> hrs			

HAUL INFO	WATER TEMP	SET	IF MM DETERRENTS USED:
H A U L	BEGIN / / : END / / :	<input type="text"/>	ACTIVE <input type="text"/> PASSIVE <input type="text"/>
	<input type="text"/> °	HAULED <input type="text"/>	HAULED <input type="text"/>
	<input type="text"/> F	LOST <input type="text"/>	LOST <input type="text"/>

COMMENTS	SET METHOD
	Unknown 00 <input type="text"/> Visual 05 <input type="text"/>
	Temperature 01 <input type="text"/> Mixed 98 <input type="text"/>
	Bottom Contours 02 <input type="text"/> Other 99 <input type="text"/>
	Compass/Loran 03 <input type="text"/>
	Tide/Current 04 <input type="text"/>

SPECIES		SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT		SPECIES		SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT	
NAME	CODE				D/R	EST METHOD CODE	NAME	CODE				D/R	EST METHOD CODE
1								11					
2								12					
3								13					
4								14					
5								15					
6								16					
7								17					
8								18					
9								19					
10								20					

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

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

<b>SORTING METHOD</b> Check all that apply	<b>ESTIMATION METHODS</b>	
1 <input type="checkbox"/> Picked	01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
2 <input type="checkbox"/> Shoveled	05 = Tally	03 = Basket or Tote Count
3 <input type="checkbox"/> Deckloaded	02 = Volume-to-Volume	13 = Count-to-Count
4 <input type="checkbox"/> Conveyor System	14 = Weight-to-Weight	07 = Cumulative Sum
5 <input type="checkbox"/> Pumping System	12 = Trap Subsample	10 = Catch Composition Log
9 <input type="checkbox"/> Other (Comment)	04 = Captain	06 = Visually Estimated
	98 = Combination (Comment)	
	99 = Other (Comment)	

**MAREL SCALE**  
**CALIBRATION WT**  
 \_\_\_\_\_

**BASKET OR TOTE COUNT OR TALLY**

\*\*Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1						_____		
2						_____		
3						_____		
4						_____		
5						_____		
6						_____		
7						_____		
8						_____		
9						_____		
10						_____		

**VOLUME-TO-VOLUME**

CATCH PILE SHAPE AS SEEN FROM ABOVE:

**Trapezoid**  

$$\left( \frac{W1 + W2}{2} \right) \times L \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Rectangle**  

$$W \times L \times \text{Avg. Depth} = \text{Volume (ft}^3\text{)}$$

**Triangle**  

$$\left( \frac{W}{2} \right) \times L \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Full Oval or Half-Oval**  

$$W \times L \times \text{Avg. Depth} \times 0.785 = \text{Volume (ft}^3\text{)}$$

**Other Shapes or Combination:** Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

COMMENTS :

<b>A) Total Haul Vol.</b> _____ ft <sup>3</sup>	<b>B) Total Subsample Vol.</b> Basket(s) X 1.47 ft <sup>3</sup> = _____ ft <sup>3</sup> Tote(s) X 2.65 ft <sup>3</sup> = _____ ft <sup>3</sup> Other(s) X _____ ft <sup>3</sup> = _____ ft <sup>3</sup>	<b>C) Sample Weight Multiplier</b> (A ÷ B) _____ >> Copy to Front >>
<b>OTHER SUBSAMPLE TYPES</b>	Unit Type <input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	A) Total B) Sample

**DECKLOADING and CUMULATIVE SUM**

Entire Deckloading Haul Range	Deckloading Measurements			
	Total Pile Vol.	Remainder Pile Vol.		
	_____ ft <sup>3</sup>	_____ ft <sup>3</sup>		
	= _____ ft <sup>3</sup>			
Number of Hauls	*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.			
		A) Total Haul Vol.		
		_____ ft <sup>3</sup>		
Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

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

OBS/TRIP ID	
DATE LANDED mm/yy	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE <input type="text"/>		GEAR NUMBER	NET NAME	NET TYPE	NET BUILDER	CODEND/LINER HUNG      CODEND      LINER		GEAR MOUNTED <b>ELECTRONICS</b>		EXCLUDER/SEPARATOR DEVICE			
LINER USED? NO 0 _____ YES 1 _____		CONSTRUCTION MATERIAL TYPE      NET BODY      CODEND      LINER			LENGTH MEASUREMENTS			USED ? NO 0 _____ YES 1 _____		USED? NO 0 _____ YES 1 _____			
DOORS USED? NO 0 _____ YES 1 _____		Poly      02 _____ Kevlar®      03 _____ Spectra®      04 _____ Tenex®      05 _____ Nomex®      06 _____			Headrope _____ ft Footrope/Sweep _____ ft Ground Cable _____ fm Bridle _____ fm			NUMBER OF TRANSDUCERS _____		Type Code _____			
WEIGHT OF ONE DOOR _____ kg		Combination 98 _____ Other 99 _____			STRENGTHENER USED? NO 0 _____ YES 1 _____			TWINE TYPE      CODEND      LINER Unknown 0 _____ Single 1 _____ Double 2 _____ Single on Top/ Double on Bottom 3 _____ Other 9 _____		T.E.D. EXTENSION Mesh Size _____ in (circle one) A / E			
KITE PANEL KITE USED? Number _____ NO 0 _____ Width _____ in YES 1 _____ Length _____ in		FISHING CIRCLE # MESHES _____ MESH SIZE _____ in			CHAFING GEAR USED? NO 0 _____ YES 1 _____			CODEND MESH SIZE _____ mm      _____ mm _____ mm      _____ mm _____ mm      _____ mm _____ mm      _____ mm		BRAND Unknown 0 _____ Furuno® 1 _____ Simrad® 2 _____ Northstar Tech 3 _____ Notus 4 _____ Marport 5 _____ Scanmar 6 _____ Combination 8 _____ Other 9 _____		TYPE Unknown 0 _____ Panel 1 _____ Opening 2 _____ Single Flap 3 _____ Double Flap 4 _____ Other 9 _____	
COMMENTS		GROUND GEAR TYPE      GROUND CABLE      BRIDLE/ LEG      SWEEP				LINER MESH SIZE _____ mm      _____ mm _____ mm      _____ mm _____ mm      _____ mm		LOCATION (check all that apply) Unknown 0 <input type="checkbox"/> Headrope 1 <input type="checkbox"/> Wings 2 <input type="checkbox"/> Footrope 3 <input type="checkbox"/> Door 5 <input type="checkbox"/> Codend 6 <input type="checkbox"/> Other 9 <input type="checkbox"/>		MESH SIZE _____ in LENGTH # MESHES _____ OR _____ in WIDTH # MESHES _____ OR _____ in SHAPE Type Code _____ LOCATION Type Code _____			
		SWEEP GEAR Number _____		FLOATS Number _____									
		Diameter _____ in		Diameter _____ in									

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

**BOTTOM TRAWL HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBOTH OBHAU OBSPP 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE <input type="text"/>	GEAR # <input type="text"/>	HAUL # <input type="text"/>	HAUL OBS? NO 0 <input type="text"/> YES 1 <input type="text"/>	ON-EFFORT? NO 0 <input type="text"/> YES 1 <input type="text"/>	CATCH? NO 0 <input type="text"/> YES 1 <input type="text"/>	INC TAKE? NO 0 <input type="text"/> YES 1 <input type="text"/>	WEATHER CODE	WIND SPEED <input type="text"/> kn      DIRECTION <input type="text"/> °		WAVE HEIGHT <input type="text"/> ft	DEPTH, HAUL BEGIN <input type="text"/> fm	GEAR COND CODE
-----------------------------------	--------------------------------	--------------------------------	--	---	---	--	--------------	---	--	--	---	----------------

HAUL INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				NUMBER OF TURNS	TOW SPEED	WIRE OUT
BEGIN HAUL	/ /	:	Station 1 9960 -	Latitude / Bearing	Station 2 9960 -	Longitude / Bearing	<input type="text"/> kn	<input type="text"/> fm	
BEGIN FISHING	/ /	:					WATER TEMP <input type="text"/> ° F	TARGET SPECIES	CODE
END HAUL	/ /	:	9960 -		9960 -				

GEAR ONBOARD	/ /	:	COMMENTS						VERTICAL OPENING ** <input type="text"/> ft
<b>FISH PUMPING</b>									HORIZONTAL OPENING ** <input type="text"/> ft
BEGIN	/ /	:							DOOR SPREAD ** <input type="text"/> ft
END	/ /	:							SAMPLE WEIGHT MULTIPLIER <input type="text"/>

\*\* Only fill in if gear mounted electronics are used

SPECIES				WEIGHT				SPECIES				WEIGHT			
NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE	NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE		
1		<input type="text"/>					11		<input type="text"/>						
2		<input type="text"/>					12		<input type="text"/>						
3		<input type="text"/>					13		<input type="text"/>						
4		<input type="text"/>					14		<input type="text"/>						
5		<input type="text"/>					15		<input type="text"/>						
6		<input type="text"/>					16		<input type="text"/>						
7		<input type="text"/>					17		<input type="text"/>						
8		<input type="text"/>					18		<input type="text"/>						
9		<input type="text"/>					19		<input type="text"/>						
10		<input type="text"/>					20		<input type="text"/>						

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

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

<b>SORTING METHOD</b> Check all that apply	<b>ESTIMATION METHODS</b>	
1 <input type="checkbox"/> Picked	01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
2 <input type="checkbox"/> Shoveled	05 = Tally	03 = Basket or Tote Count
3 <input type="checkbox"/> Deckloaded	02 = Volume-to-Volume	13 = Count-to-Count
4 <input type="checkbox"/> Conveyor System	14 = Weight-to-Weight	07 = Cumulative Sum
5 <input type="checkbox"/> Pumping System	12 = Trap Subsample	10 = Catch Composition Log
9 <input type="checkbox"/> Other (Comment)	04 = Captain	06 = Visually Estimated
	98 = Combination (Comment)	
	99 = Other (Comment)	

**MAREL SCALE**  
**CALIBRATION WT**  
 \_\_\_\_\_

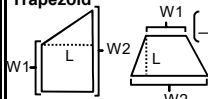
**BASKET OR TOTE COUNT OR TALLY**

\*\*Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

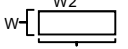
Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1						_____		
2						_____		
3						_____		
4						_____		
5						_____		
6						_____		
7						_____		
8						_____		
9						_____		
10						_____		

**VOLUME-TO-VOLUME**

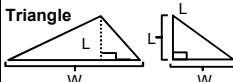
CATCH PILE SHAPE AS SEEN FROM ABOVE:

**Trapezoid**  


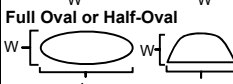
$$\left( \frac{\text{Width 1} + \text{Width 2}}{2} \right) \times \text{Length} \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Rectangle**  


$$\text{Width} \times \text{Length} \times \text{Avg. Depth} = \text{Volume (ft}^3\text{)}$$

**Triangle**  


$$\left( \frac{\text{Width}}{2} \right) \times \text{Length} \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Full Oval or Half-Oval**  


$$\left( \frac{\text{Width}}{2} \right) \times \text{Length} \times \text{Avg. Depth} \times 0.785 = \text{Volume (ft}^3\text{)}$$

**Other Shapes or Combination:** Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

COMMENTS :

<b>A) Total Haul Vol.</b> _____ ft <sup>3</sup>	<b>B) Total Subsample Vol.</b> Basket(s) X 1.47 ft <sup>3</sup> = _____ ft <sup>3</sup> Tote(s) X 2.65 ft <sup>3</sup> = _____ ft <sup>3</sup> Other(s) X _____ ft <sup>3</sup> = _____ ft <sup>3</sup>	<b>C) Sample Weight Multiplier</b> (A ÷ B) _____ >> Copy to Front >>
<b>OTHER SUBSAMPLE TYPES</b>	Unit Type <input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	A) Total B) Sample

**DECKLOADING and CUMULATIVE SUM**

Entire Deckloading Haul Range	Deckloading Measurements	
	Total Pile Vol.	Remainder Pile Vol.
	_____ ft <sup>3</sup>	_____ ft <sup>3</sup>
	= _____ ft <sup>3</sup>	
Number of Hauls	*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.	
		A) Total Haul Vol.
		_____ ft <sup>3</sup>

Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

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

OBS/TRIP ID	
DATE LANDED mm/yy	/ /
PAGE #	OF <input type="checkbox"/>

GEAR CODE	GEAR NUMBER	NET NAME	NET TYPE	NET BUILDER	YEAR NET MADE	CODEND/LINER HUNG	CODEND	LINER	GEAR MOUNTED ELECTRONICS	EXCLUDER/SEPARATOR DEVICE
<input type="checkbox"/>						Unknown	0		USED ?	USED? NO 0 ___ YES 1 ___
<b>GEAR FISHED</b>		<b>CONSTRUCTION MATERIAL</b>		<b>LENGTH MEASUREMENTS</b>		Diamond	1		NO 0	Type Code _____
Unknown	0	TYPE NET BODY CODEND LINER		Headrope _____ ft		Square	2		YES 1	T.E.D. EXTENSION
Pelagic	1	Unknown 00		Footrope/Sweep _____ ft		Square, wrapped	3		NUMBER OF TRANSDUCERS**	Mesh Size _____ . _____ in
Semi-Pelagic	2	Nylon 01		Top Bridle _____ fm		Combination	8			(circle one) A / E
Bottom	3	Poly 02		Wing Bridle _____ fm		Unknown	0		TYPE	<b>ESCAPE OUTLET</b>
Other	9	Kevlar® 03		Bottom Bridle _____ fm		Single	1		Unknown 0	USED? NO 0 ___ YES 1 ___
		Spectra® 04		<b>BRIDLES</b> NUMBER		Double	2		Wired 1	
		Tenex® 05		BRIDLES/WARP _____		Single on Top/			Wireless 2	
		Nomex® 06		BRIDLES/SIDE _____		Double on Bottom	3		Both 3	
<b>NET CONSTRUCTION</b>		Combination 98		WARPS/BOAT* _____		Other	9			
Unknown	0	Other 99		<b>FISHING CIRCLE</b>						
Rope/Large Mesh	1			# MESHES _____						
Parallel Rope Trawl	2			MESH SIZE _____ in						
Other	9			STRENGTHENER USED?						
		<b>BUOYANCY/RELEASE DEVICES</b>		NO 0 YES 1						
		USED? NO YES		CHAFING GEAR USED?						
DESIGN		FLOATS 0 1		NO 0 YES 1						
Unknown	0	BLOWOUT 0 1								
2 Seam	1	KITE 0 1								
4 Seam, Equal Panels	2									
4 Seam, Unequal Panels	3	KITE PANEL								
Other	9	Number _____								
		Length _____ in								
		Width _____ in								
<b>NET BODY MESH SIZE</b>										
Minimum _____ in		FLOATS								
Maximum _____ in		Number _____ Diameter _____ in								
<b>LINER USED?</b>		<b>COMMENTS</b>								
NO 0										
YES 1										
<b>DOORS</b>										
USED? NO 0 YES 1										
<b>WEIGHT</b> _____ kg										
<b>WEIGHTS (TOTAL)</b>										
USED? NO 0 YES 1										
<b>WEIGHT</b> _____ lb										
Actual 1		Codend = "Coversheet"								
Estimated 2		Liner = "Brailer"								
		* Fill in only on pair trawl trips.								
		** Include all sensors on the gear								

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



**PAIR and SINGLE MID-WATER TRAWL HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBPRH OBHAU OBSPP 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE	GEAR #	HAUL #	HAUL OBS? NO 0 _____ YES 1 _____	ON-EFFORT? NO 0 _____ YES 1 _____	CATCH? NO 0 _____ YES 1 _____	INC TAKE? NO 0 _____ YES 1 _____	WEATHER CODE	WIND SPEED _____ kn DIRECTION _____ °	WAVE HEIGHT _____ ft	DEPTH, HAUL BEGIN _____ fm	GEAR COND CODE	
HAUL INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				NUMBER OF TURNS	TOW SPEED _____ kn	WIRE OUT _____ fm	WATER TEMP _____ ° F		
BEGIN HAUL	/ /	:	Station 1 9960 -	Latitude / Bearing	Station 2 9960 -	Longitude / Bearing	TARGET SPECIES CODE					
BEGIN FISHING	/ /	:					DEPTH RANGE, HEADROPE					
END HAUL	/ /	:	9960 -		9960 -		DISTANCE BETWEEN BOATS * _____ ft					
GEAR ONBOARD	/ /	:	VERTICAL OPENING	**	HORIZONTAL OPENING	**	DOOR SPREAD					
FISH PUMPING												
BEGIN	/ /	:										
END	/ /	:										

COMMENTS

\*Only fill in for pair trawl trips  
 \*\*Only fill in if gear mounted electronics are used

SAMPLE WEIGHT MULTIPLIER	_____
--------------------------	-------

SPECIES				WEIGHT				SPECIES				WEIGHT			
NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE	NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE		

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

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

<b>SORTING METHOD</b> Check all that apply	<b>ESTIMATION METHODS</b>	
1 <input type="checkbox"/> Picked	01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
2 <input type="checkbox"/> Shoveled	05 = Tally	03 = Basket or Tote Count
3 <input type="checkbox"/> Deckloaded	02 = Volume-to-Volume	13 = Count-to-Count
4 <input type="checkbox"/> Conveyor System	14 = Weight-to-Weight	07 = Cumulative Sum
5 <input type="checkbox"/> Pumping System	12 = Trap Subsample	10 = Catch Composition Log
9 <input type="checkbox"/> Other (Comment)	04 = Captain	06 = Visually Estimated
	98 = Combination (Comment)	
	99 = Other (Comment)	

**MAREL SCALE**  
**CALIBRATION WT**  
 \_\_\_\_\_

**BASKET OR TOTE COUNT OR TALLY**

\*\*Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1						_____		
2						_____		
3						_____		
4						_____		
5						_____		
6						_____		
7						_____		
8						_____		
9						_____		
10						_____		

**VOLUME-TO-VOLUME**

CATCH PILE SHAPE AS SEEN FROM ABOVE:

**Trapezoid**  

$$\left( \frac{W1 + W2}{2} \right) \times L \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Rectangle**  

$$W \times L \times \text{Avg. Depth} = \text{Volume (ft}^3\text{)}$$

**Triangle**  

$$\left( \frac{W}{2} \right) \times L \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Full Oval or Half-Oval**  

$$W \times L \times \text{Avg. Depth} \times 0.785 = \text{Volume (ft}^3\text{)}$$

**Other Shapes or Combination:** Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

COMMENTS :

<b>A) Total Haul Vol.</b> _____ ft <sup>3</sup>	<b>B) Total Subsample Vol.</b> Basket(s) X 1.47 ft <sup>3</sup> = _____ ft <sup>3</sup> Tote(s) X 2.65 ft <sup>3</sup> = _____ ft <sup>3</sup> Other(s) X _____ ft <sup>3</sup> = _____ ft <sup>3</sup>	<b>C) Sample Weight Multiplier</b> (A ÷ B) _____ >> Copy to Front >>
<b>OTHER SUBSAMPLE TYPES</b>	Unit Type <input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	A) Total B) Sample

**DECKLOADING and CUMULATIVE SUM**

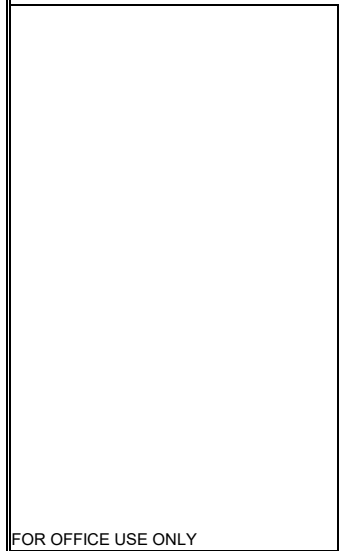
Entire Deckloading Haul Range _____	Deckloading Measurements Total Pile Vol. _____ Remainder Pile Vol. _____ A) Total Haul Vol. _____			
Number of Hauls _____	*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.			
Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

**TWIN TRAWL GEAR CHARACTERISTICS LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBTTG 01/01/21**

OBS/TRIP ID	
DATE LANDED mm/yy	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE <input type="text"/>		GEAR NUMBER		NET NAME		NET TYPE		NET BUILDER		CODEND/LINER HUNG      CODEND      LINER			GEAR MOUNTED ELECTRONICS		EXCLUDER/SEPARATOR DEVICE	
NET LOCATION Port 1 ___ Starboard 2 ___ Other 9 ___		CONSTRUCTION MATERIAL TYPE      NET BODY      CODEND      LINER				LENGTH MEASUREMENTS Headrope _____ ft Footrope/Sweep _____ ft Ground Cable _____ fm Bridle _____ fm				TWINE TYPE      CODEND      LINER Unknown 0 ___ ___ Diamond 1 ___ ___ Square 2 ___ ___ Square, wrapped 3 ___ ___ Combination 8 ___ ___			USED ? NO 0 ___ YES 1 ___		USED? NO 0 ___ YES 1 ___ Type Code _____	
DOORS USED? NO 0 ___ YES 1 ___		Poly 02 ___ ___ Kevlar® 03 ___ ___ Spectra® 04 ___ ___ Tenex® 05 ___ ___ Nomex® 06 ___ ___ Combination 98 ___ ___ Other 99 ___ ___				STRENGTHENER USED? NO 0 ___ YES 1 ___ CHAFING GEAR USED? NO 0 ___ YES 1 ___				Unknown 0 ___ ___ Single 1 ___ ___ Double 2 ___ ___ Single on Top/Double on Bottom 3 ___ ___ Other 9 ___ ___			NUMBER OF TRANSDUCERS _____ TYPE Unknown 0 ___ Wired 1 ___ Wireless 2 ___ Both 3 ___		T.E.D. EXTENSION Mesh Size _____ in (circle one) A / E	
WEIGHT OF ONE DOOR _____ kg		LINER USED? NO 0 ___ YES 1 ___		NETS CONNECTED? NO 0 ___ YES 1 ___		KITE PANEL KITE USED? Number _____ Width _____ in Length _____ in		FISHING CIRCLE # MESHES _____ MESH SIZE _____ in		CODEND MESH SIZE _____ mm      _____ mm _____ mm      _____ mm _____ mm      _____ mm _____ mm      _____ mm			BRAND Unknown 0 ___ Furuno® 1 ___ Simrad® 2 ___ Northstar Tech 3 ___ Notus 4 ___ Marport 5 ___ Scanmar 6 ___ Combination 8 ___ Other 9 ___		ESCAPE OUTLET USED? NO 0 ___ YES 1 ___ TYPE Unknown 0 ___ Panel 1 ___ Opening 2 ___ Single Flap 3 ___ Double Flap 4 ___ Other 9 ___	
COMMENTS		GROUND GEAR TYPE      GROUND CABLE      BRIDLE/ LEG      SWEEP Unknown 00 ___ ___ Chain 01 ___ ___ Cable / Wire 02 ___ ___ Wrapped Cable 03 ___ ___ Rock Hopper 04 ___ ___ Roller 05 ___ ___ Rubber Cookie 06 ___ ___ Bobbin 07 ___ ___ Plate Gear 08 ___ ___ None 98 ___ ___ Other 99 ___ ___				SWEEP GEAR Number _____ Diameter _____ in		FLOATS Number _____ Diameter _____ in		LINER MESH SIZE _____ mm      _____ mm _____ mm      _____ mm _____ mm      _____ mm			LOCATION (check all that apply) Unknown 0 <input type="checkbox"/> Headrope 1 <input type="checkbox"/> Wings 2 <input type="checkbox"/> Footrope 3 <input type="checkbox"/> Door 5 <input type="checkbox"/> Codend 6 <input type="checkbox"/> Other 9 <input type="checkbox"/>		MESH SIZE _____ in LENGTH # MESHES _____ OR _____ in WIDTH # MESHES _____ OR _____ in SHAPE Type Code _____ LOCATION Type Code _____	

<b>ADDITIONAL COMMENTS</b>	<b>EXCLUDER/SEPARATOR DEVICE TYPE CODES:</b>	<b>ESCAPE OUTLET SHAPE CODES:</b>	<b>ESCAPE OUTLET LOCATION CODES:</b>
	00 = Unknown	24 = Bent Rod T.E.D.	00 = Unknown
	01 = Nordmore Grate	25 = Conch T.E.D.	01 = Rectangular
	03 = Separator Panel	26 = Flat Bottom T.E.D.	05 = Trapezoid
	04 = Guiding Device	27 = Whelk T.E.D.	06 = Square
	05 = Raised Footrope	28 = Flexible T.E.D.	07 = Diamond
	06 = Compound Nordmore Grate	29 = Parker Soft T.E.D.	08 = Triangular
	07 = Double Nordmore Grate	30 = Experimental T.E.D.	09 = Semi-Circle
	08 = Large Mesh	31 = Northeast Modified T.E.D.	11 = Horizontal Cut
	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.		



**TWIN TRAWL HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBTH OBHAU OBSPP 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	OF

GEAR CODE	GEAR #	HAUL #	HAUL OBS? NO 0 _____ YES 1 _____	ON-EFFORT? NO 0 _____ YES 1 _____	CATCH? NO 0 _____ YES 1 _____	INC TAKE? NO 0 _____ YES 1 _____	WEATHER CODE	WIND SPEED _____ kn      DIRECTION _____ °		WAVE HEIGHT _____ ft	DEPTH, HAUL BEGIN _____ fm	GEAR COND CODE
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HAUL INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				NUMBER OF TURNS	TOW SPEED _____ kn	WIRE OUT _____ fm	WATER TEMP _____ °F
BEGIN HAUL	/ /	:	Station 1 9960 -	Latitude / Bearing	Station 2 9960 -	Longitude / Bearing				

BEGIN FISHING	/ /	:					TARGET SPECIES	CODE	NET OBSERVED Port 1 _____ Starboard 2 _____ Both 3 _____
END HAUL	/ /	:	9960 -		9960 -				

GEAR ONBOARD	/ /	:							**Only fill in if gear mounted electronics are used	VERTICAL OPENING _____ ft
COMMENTS									HORIZONTAL OPENING _____ ft	
								SAMPLE WEIGHT MULTIPLIER _____	DOOR SPREAD _____ ft	

SPECIES				WEIGHT				SPECIES				WEIGHT			
NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE	NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE		
1		_____					11		_____						
2		_____					12		_____						
3		_____					13		_____						
4		_____					14		_____						
5		_____					15		_____						
6		_____					16		_____						
7		_____					17		_____						
8		_____					18		_____						
9		_____					19		_____						
10		_____					20		_____						

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

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

<b>SORTING METHOD</b> Check all that apply	<b>ESTIMATION METHODS</b>
1 <input type="checkbox"/> Picked	01 = Actual (Spring Scale)    11 = Actual (Electronic Scale)
2 <input type="checkbox"/> Shoveled	05 = Tally
3 <input type="checkbox"/> Deckloaded	02 = Volume-to-Volume    03 = Basket or Tote Count
4 <input type="checkbox"/> Conveyor System	14 = Weight-to-Weight    13 = Count-to-Count
5 <input type="checkbox"/> Pumping System	12 = Trap Subsample    07 = Cumulative Sum
9 <input type="checkbox"/> Other (Comment)	10 = Catch Composition Log
	04 = Captain    06 = Visually Estimated
	98 = Combination (Comment)
	99 = Other (Comment)

**MAREL SCALE**  
**CALIBRATION WT**  
 \_\_\_\_\_

**BASKET OR TOTE COUNT OR TALLY**

\*\*Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1						_____		
2						_____		
3						_____		
4						_____		
5						_____		
6						_____		
7						_____		
8						_____		
9						_____		
10						_____		

**VOLUME-TO-VOLUME**

CATCH PILE SHAPE AS SEEN FROM ABOVE:

**Trapezoid**  

$$\left( \frac{W1 + W2}{2} \right) \times L \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Rectangle**  

$$W \times L \times \text{Avg. Depth} = \text{Volume (ft}^3\text{)}$$

**Triangle**  

$$\left( \frac{W}{2} \right) \times L \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Full Oval or Half-Oval**  

$$W \times L \times \text{Avg. Depth} \times 0.785 = \text{Volume (ft}^3\text{)}$$

**Other Shapes or Combination:** Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

COMMENTS :

<b>A) Total Haul Vol.</b> _____ ft <sup>3</sup>	<b>B) Total Subsample Vol.</b> Basket(s) X 1.47 ft <sup>3</sup> = _____ ft <sup>3</sup> Tote(s) X 2.65 ft <sup>3</sup> = _____ ft <sup>3</sup> Other(s) X _____ ft <sup>3</sup> = _____ ft <sup>3</sup>	<b>C) Sample Weight Multiplier</b> (A ÷ B) _____ >> Copy to Front >>
<b>OTHER SUBSAMPLE TYPES</b>	Unit Type <input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	A) Total    B) Sample

**DECKLOADING and CUMULATIVE SUM**

Entire Deckloading Haul Range	Deckloading Measurements			
	Total Pile Vol.	Remainder Pile Vol.    A) Total Haul Vol.		
	_____ ft <sup>3</sup>	_____ ft <sup>3</sup> = _____ ft <sup>3</sup>		
Number of Hauls	*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.			
Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

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

OBS/TRIP ID	
DATE LANDED mm/yy	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE <input type="text"/>		GEAR NUMBER		NET NAME		NET TYPE		NET BUILDER		CODEND/LINER HUNG      CODEND      LINER			GEAR MOUNTED ELECTRONICS		EXCLUDER/SEPARATOR DEVICE				
NET LOCATION Port 1 <input type="text"/> Starboard 2 <input type="text"/> Other 9 <input type="text"/>		CONSTRUCTION MATERIAL TYPE      NET BODY      CODEND      LINER				LENGTH MEASUREMENTS Headrope _____ ft Footrope/Sweep _____ ft Ground Cable _____ fm Bridle _____ fm				TWINE TYPE      CODEND      LINER Unknown 0 <input type="text"/> Diamond 1 <input type="text"/> Square 2 <input type="text"/> Square, wrapped 3 <input type="text"/> Combination 8 <input type="text"/>			USED? NO 0 <input type="text"/> YES 1 <input type="text"/>		Type Code _____				
DOORS USED? NO 0 <input type="text"/> YES 1 <input type="text"/>		Poly 02 <input type="text"/> Kevlar® 03 <input type="text"/> Spectra® 04 <input type="text"/> Tenex® 05 <input type="text"/> Nomex® 06 <input type="text"/> Combination 98 <input type="text"/> Other 99 <input type="text"/>				STRENGTHENER USED? NO 0 <input type="text"/> YES 1 <input type="text"/>				Unknown 0 <input type="text"/> Single 1 <input type="text"/> Double 2 <input type="text"/> Single on Top/ 3 <input type="text"/> Double on Bottom 3 <input type="text"/> Other 9 <input type="text"/>			NUMBER OF TRANSDUCERS _____		T.E.D. EXTENSION Mesh Size _____ in (circle one) A / E				
WEIGHT OF ONE DOOR _____ kg		CHAFING GEAR USED? NO 0 <input type="text"/> YES 1 <input type="text"/>				Other 9 <input type="text"/>				TYPE Unknown 0 <input type="text"/> Wired 1 <input type="text"/> Wireless 2 <input type="text"/> Both 3 <input type="text"/>			ESCAPE OUTLET USED? NO 0 <input type="text"/> YES 1 <input type="text"/>						
LINER USED? NO 0 <input type="text"/> YES 1 <input type="text"/>		NETS CONNECTED? NO 0 <input type="text"/> YES 1 <input type="text"/>		KITE PANEL KITE USED? Number _____ Width _____ in Length _____ in				FISHING CIRCLE # MESHES _____ MESH SIZE _____ in				CODEND MESH SIZE _____ mm      _____ mm _____ mm      _____ mm _____ mm      _____ mm _____ mm      _____ mm		BRAND Unknown 0 <input type="text"/> Furuno® 1 <input type="text"/> Simrad® 2 <input type="text"/> Northstar Tech 3 <input type="text"/> Notus 4 <input type="text"/> Marport 5 <input type="text"/> Scanmar 6 <input type="text"/> Combination 8 <input type="text"/> Other 9 <input type="text"/>		TYPE Unknown 0 <input type="text"/> Panel 1 <input type="text"/> Opening 2 <input type="text"/> Single Flap 3 <input type="text"/> Double Flap 4 <input type="text"/> Other 9 <input type="text"/>			
COMMENTS		GROUND GEAR TYPE      GROUND CABLE      BRIDLE/ LEG      SWEEP Unknown 00 _____ Chain 01 _____ Cable / Wire 02 _____ Wrapped Cable 03 _____ Rock Hopper 04 _____ Roller 05 _____ Rubber Cookie 06 _____ Bobbin 07 _____ Plate Gear 08 _____ None 98 _____ Other 99 _____				SWEEP GEAR Number _____ Diameter _____ in				FLOATS Number _____ Diameter _____ in				LINER MESH SIZE _____ mm      _____ mm _____ mm      _____ mm _____ mm      _____ mm		LOCATION (check all that apply) Unknown 0 <input type="checkbox"/> Headrope 1 <input type="checkbox"/> Wings 2 <input type="checkbox"/> Footrope 3 <input type="checkbox"/> Door 5 <input type="checkbox"/> Codend 6 <input type="checkbox"/> Other 9 <input type="checkbox"/>		MESH SIZE _____ in LENGTH # MESHES _____ OR _____ in WIDTH # MESHES _____ OR _____ in SHAPE Type Code _____ LOCATION Type Code _____	

<b>ADDITIONAL COMMENTS</b>	<b>EXCLUDER/SEPARATOR DEVICE TYPE CODES:</b>	<b>ESCAPE OUTLET SHAPE CODES:</b>	<b>ESCAPE OUTLET LOCATION CODES:</b>
	00 = Unknown	24 = Bent Rod T.E.D.	00 = Unknown
	01 = Nordmore Grate	25 = Conch T.E.D.	01 = Rectangular
	03 = Separator Panel	26 = Flat Bottom T.E.D.	05 = Trapezoid
	04 = Guiding Device	27 = Whelk T.E.D.	06 = Square
	05 = Raised Footrope	28 = Flexible T.E.D.	07 = Diamond
	06 = Compound Nordmore Grate	29 = Parker Soft T.E.D.	08 = Triangular
	07 = Double Nordmore Grate	30 = Experimental T.E.D.	09 = Semi-Circle
	08 = Large Mesh	31 = Northeast Modified T.E.D.	11 = Horizontal Cut
	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



**SCALLOP TRAWL HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBSTH OBHAU OBSPP 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE <input type="text"/>	GEAR # <input type="text"/>	HAUL # <input type="text"/>	HAUL OBS? NO 0 <input type="text"/> YES 1 <input type="text"/>	ON-EFFORT? NO 0 <input type="text"/> YES 1 <input type="text"/>	CATCH? NO 0 <input type="text"/> YES 1 <input type="text"/>	INC TAKE? NO 0 <input type="text"/> YES 1 <input type="text"/>	WEATHER CODE	WIND SPEED <input type="text"/> kn DIRECTION <input type="text"/> °	WAVE HEIGHT <input type="text"/> ft	DEPTH, HAUL BEGIN <input type="text"/> fm	GEAR COND CODE		
HAUL INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				NET OBSERVED	TOW SPEED	WIRE OUT				
BEGIN HAUL	/ /	:	Station 1 9960 -	Latitude / Bearing	Station 2 9960 -	Longitude / Bearing	Port 1 <input type="text"/> Starboard 2 <input type="text"/>	<input type="text"/> kn	<input type="text"/> fm				
BEGIN FISHING	/ /	:					Both 3 <input type="text"/> Aft 4 <input type="text"/>	TARGET SPECIES		CODE			
END HAUL	/ /	:	9960 -		9960 -		<b>Sea Scallops</b>		<b>8009</b>				
GEAR ONBOARD	/ /	:					SEA SCALLOP CLAPPERS OBS? NO 0 <input type="text"/> YES 1 <input type="text"/>	NUMBER OF TURNS					
COMMENTS												WATER TEMP <input type="text"/> ° F	
								SAMPLE WEIGHT MULTIPLIER <input type="text"/>	VERTICAL OPENING ** <input type="text"/> ft	HORIZONTAL OPENING ** <input type="text"/> ft	DOOR SPREAD ** <input type="text"/> ft		

\*\* Only fill in if gear mounted electronics are used.

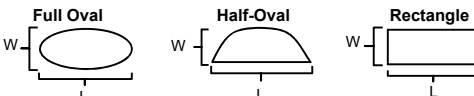
SPECIES		SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT		SPECIES		SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT	
NAME	CODE				D/R	ESTIMATION METHOD CODE	NAME	CODE				D/R	ESTIMATION METHOD CODE
1	Sea Scallops	8009		100				11					
2								12					
3								13					
4								14					
5								15					
6								16					
7								17					
8								18					
9								19					
10								20					

**CATCH ESTIMATION WORKSHEET (SCALLOP)**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**01/01/21**

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

<b>SORTING METHOD</b> Check all that apply 1 <input type="checkbox"/> Picked 2 <input type="checkbox"/> Shoveled 3 <input type="checkbox"/> Deckloaded 4 <input type="checkbox"/> Conveyor System 5 <input type="checkbox"/> Pumping System 9 <input type="checkbox"/> Other (Comment)	<b>ESTIMATION METHODS</b> 01 = Actual (Spring Scale)    11 = Actual (Electronic Scale) 05 = Tally    03 = Basket or Tote Count 02 = Volume-to-Volume    13 = Count-to-Count 14 = Weight-to-Weight    07 = Cumulative Sum 12 = Trap Subsample    10 = Catch Composition Log 04 = Captain    06 = Visually Estimated 98 = Combination (Comment) 99 = Other (Comment)		<b>DECKLOADING</b> Entire Deckloading Haul Range _____  Number of Hauls _____	<b>CUMULATIVE SUM</b> *Estimation Method used to obtain species Total Samp.Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations and use '98' on front.																																																						
	<table border="1"> <thead> <tr> <th>Species</th> <th>Disp. Code</th> <th>Total Sampled Weight</th> <th>*Est. Method</th> <th>Weight per Haul</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>				Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul	1					2					3					4					5					6					7					8					9					10			
Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul																																																						
1																																																										
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7																																																										
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9																																																										
10																																																										

BASKET OR TOTE COUNT OR TALLY								
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other								
Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1								
2								
3								

<b>VOLUME-TO-VOLUME</b> CATCH PILE SHAPE AS SEEN FROM ABOVE: 	<b>MAREL SCALE</b> <b>CALIBRATION WT</b> _____	DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.
--	--	--

**A1) REMAINDER VOLUME from previous haul(s)**

**Starboard**    Circle One:    Full Oval    Half-Oval    Rectangle

\_\_\_\_\_ ft X \_\_\_\_\_ ft X \_\_\_\_\_ ft (X 0.785) = \_\_\_\_\_ ft<sup>3</sup>

Width    Length    Avg. Depth    (ovals)    Volume

**Port**    Circle One:    Full Oval    Half-Oval    Rectangle

\_\_\_\_\_ ft X \_\_\_\_\_ ft X \_\_\_\_\_ ft (X 0.785) = \_\_\_\_\_ ft<sup>3</sup>

Width    Length    Avg. Depth    (ovals)    Volume

A1) TOTAL REMAINDER VOLUME (Starboard + Port) = \_\_\_\_\_ ft<sup>3</sup>

**A2) TOTAL VOLUME after current haul dumped**

**Starboard**    Circle One:    Full Oval    Half-Oval    Rectangle

\_\_\_\_\_ ft X \_\_\_\_\_ ft X \_\_\_\_\_ ft (X 0.785) = \_\_\_\_\_ ft<sup>3</sup>

Width    Length    Avg. Depth    (ovals)    Volume

**Port**    Circle One:    Full Oval    Half-Oval    Rectangle

\_\_\_\_\_ ft X \_\_\_\_\_ ft X \_\_\_\_\_ ft (X 0.785) = \_\_\_\_\_ ft<sup>3</sup>

Width    Length    Avg. Depth    (ovals)    Volume

A2) TOTAL CATCH PILE VOLUME (Starboard + Port) = \_\_\_\_\_ π

<b>A) Total Haul Vol.</b> _____ ft <sup>3</sup>	<b>B) Total Subsample Vol.</b> _____ Basket(s) X 1.47 ft <sup>3</sup> = _____ ft <sup>3</sup> _____ Tote(s) X 2.65 ft <sup>3</sup> = _____ ft <sup>3</sup> _____ Other(s) X _____ ft <sup>3</sup> = _____ ft <sup>3</sup>	<b>C) Sample Weight Multiplier (A ÷ B)</b> _____ >> Copy to Front >>
<b>OTHER SUBSAMPLE TYPES</b>	<b>Unit Type</b> <input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	

**COMMENTS :**

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

OBS/TRIP ID	
DATE LANDED mm/yy	/ /
PAGE #	of

WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				SEA SCALLOPS # OF BASKETS KEPT (AVERAGE)
				Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	
1	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
1	END	/ /	:	9960-		9960-		
LAST HAUL								
2	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
2	END	/ /	:	9960-		9960-		
LAST HAUL								
3	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
3	END	/ /	:	9960-		9960-		
LAST HAUL								
4	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
4	END	/ /	:	9960-		9960-		
LAST HAUL								
5	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
5	END	/ /	:	9960-		9960-		
LAST HAUL								
6	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
6	END	/ /	:	9960-		9960-		
LAST HAUL								
7	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
7	END	/ /	:	9960-		9960-		
LAST HAUL								
8	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
8	END	/ /	:	9960-		9960-		
LAST HAUL								
9	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
9	END	/ /	:	9960-		9960-		
LAST HAUL								
0	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
0	END	/ /	:	9960-		9960-		
LAST HAUL								

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

OBS/TRIP ID	
DATE LANDED mm/yy	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE  <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	GEAR NUMBER(s)	If the dredge is fished off the stern, check box here  AFT (A) <input type="checkbox"/>
---	----------------	---

PORT DREDGE (P)		
<b>DREDGE FRAME</b> FRAME TYPE Unknown 0 ___ FRAME HEIGHT ___ in Standard 1 ___ TDD 2 ___ FRAME WIDTH ___ ft Other 9 ___	<b>CHAINS</b> USED? NO YES NUMBER ROCK 0 ___ 1 ___ TICKLER 0 ___ 1 ___ <b>CONFIGURATION</b> STANDARD 1 ___ TURTLE CHAIN MAT 2 ___	<b>TWINE TOP</b> MESH SIZE ___ mm ___ mm ___ mm ___ mm ___ mm ___ mm ___ mm ___ mm <b># MESHES</b> WIDE ___ LONG ___ HUNG Unknown 0 ___ Diamond 1 ___ Square 2 ___ Combination 8 ___ <b># RINGS ON WHICH TWINE TOP HANGS</b> ___
<b>PORT DREDGE COMMENTS</b> <b>TURTLE CHAIN MAT VERIFICATION</b> NO YES Captain confirmed turtle chain mat ___ ___ Intersections connected with links ___ ___ All openings 14" or less ___ ___		
<b>CHAIN BAG</b> CHAFING GEAR USED? NO 0 ___ YES 1 ___ # ROWS IN APRON ___	INSIDE RING SIZE (mm) (5 random measurements) TOP OF BAG _____ BOTTOM OF BAG _____	

STARBOARD DREDGE (S)		
<b>DREDGE FRAME</b> FRAME TYPE Unknown 0 ___ FRAME HEIGHT ___ in Standard 1 ___ TDD 2 ___ FRAME WIDTH ___ ft Other 9 ___	<b>CHAINS</b> USED? NO YES NUMBER ROCK 0 ___ 1 ___ TICKLER 0 ___ 1 ___ <b>CONFIGURATION</b> STANDARD 1 ___ TURTLE CHAIN MAT 2 ___	<b>TWINE TOP</b> MESH SIZE ___ mm ___ mm ___ mm ___ mm ___ mm ___ mm ___ mm ___ mm <b># MESHES</b> WIDE ___ LONG ___ HUNG Unknown 0 ___ Diamond 1 ___ Square 2 ___ Combination 8 ___ <b># RINGS ON WHICH TWINE TOP HANGS</b> ___
<b>STARBOARD DREDGE COMMENTS</b> <b>TURTLE CHAIN MAT VERIFICATION</b> NO YES Captain confirmed turtle chain mat ___ ___ Intersections connected with links ___ ___ All openings 14" or less ___ ___		
<b>CHAIN BAG</b> CHAFING GEAR USED? NO 0 ___ YES 1 ___ # ROWS IN APRON ___	INSIDE RING SIZE (mm) (5 random measurements) TOP OF BAG _____ BOTTOM OF BAG _____	

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

**ADDITIONAL COMMENTS, PORT DREDGE**

**ADDITIONAL COMMENTS, STARBOARD DREDGE**

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**SCALLOP DREDGE HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBSDH OBHAU OBSPP 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE 1 3 2	GEAR # [ ] [ ]	HAUL # [ ] [ ] [ ] [ ]	HAUL OBS? NO 0 _____ YES 1 _____	ON-EFFORT? NO 0 _____ YES 1 _____	CATCH? NO 0 _____ YES 1 _____	INC TAKE? NO 0 _____ YES 1 _____	WEATHER CODE	WIND SPEED _____ kn DIRECTION _____ °	WAVE HEIGHT _____ ft	DEPTH, HAUL BEGIN _____ fm	GEAR CONDITION CODE	
HAUL INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				DREDGE OBSERVED	TOW SPEED _____ kn	WIRE OUT _____ fm	WATER TEMP _____ ° F		
BEGIN HAUL	/ /	:	Station 1 9960 -	Latitude / Bearing	Station 2 9960 -	Longitude / Bearing	Port 1 _____					
BEGIN FISHING	/ /	:					Starboard 2 _____	TARGET SPECIES		CODE		
END HAUL	/ /	:	9960 -		9960 -		Both 3 _____	Sea Scallops		8009		
GEAR ONBOARD	/ /	:					Aft 4 _____	SEA SCALLOP CLAPPERS OBS? NO 0 _____ YES 1 _____	GREY MEATS OR PARASITES OBS? NO 0 _____ YES 1 _____			
COMMENTS												

SAMPLE WEIGHT MULTIPLIER	_____
--------------------------	-------

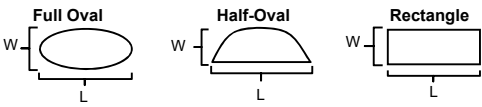
SPECIES		SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT		SPECIES		SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT	
NAME	CODE				D/R	EST METHOD CODE	NAME	CODE				D/R	EST METHOD CODE
1	Sea Scallops	8009		100				11					
2								12					
3								13					
4								14					
5								15					
6								16					
7								17					
8								18					
9								19					
10								20					

**CATCH ESTIMATION WORKSHEET (SCALLOP)  
NMFS FISHERIES OBSERVER PROGRAM  
01/01/21**

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

<b>SORTING METHOD</b> Check all that apply 1 <input type="checkbox"/> Picked 2 <input type="checkbox"/> Shoveled 3 <input type="checkbox"/> Deckloaded 4 <input type="checkbox"/> Conveyor System 5 <input type="checkbox"/> Pumping System 9 <input type="checkbox"/> Other (Comment)	<b>ESTIMATION METHODS</b> 01 = Actual (Spring Scale)    11 = Actual (Electronic Scale) 05 = Tally    03 = Basket or Tote Count 02 = Volume-to-Volume    13 = Count-to-Count 14 = Weight-to-Weight    07 = Cumulative Sum 12 = Trap Subsample    10 = Catch Composition Log 04 = Captain    06 = Visually Estimated 98 = Combination (Comment) 99 = Other (Comment)		<b>DECKLOADING</b> Entire Deckloading Haul Range _____ Number of Hauls _____	<b>CUMULATIVE SUM</b> *Estimation Method used to obtain species Total Samp.Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations and use '98' on front.																																																						
	<table border="1"> <thead> <tr> <th>Species</th> <th>Disp. Code</th> <th>Total Sampled Weight</th> <th>*Est. Method</th> <th>Weight per Haul</th> </tr> </thead> <tbody> <tr><td>1</td><td></td><td></td><td></td><td></td></tr> <tr><td>2</td><td></td><td></td><td></td><td></td></tr> <tr><td>3</td><td></td><td></td><td></td><td></td></tr> <tr><td>4</td><td></td><td></td><td></td><td></td></tr> <tr><td>5</td><td></td><td></td><td></td><td></td></tr> <tr><td>6</td><td></td><td></td><td></td><td></td></tr> <tr><td>7</td><td></td><td></td><td></td><td></td></tr> <tr><td>8</td><td></td><td></td><td></td><td></td></tr> <tr><td>9</td><td></td><td></td><td></td><td></td></tr> <tr><td>10</td><td></td><td></td><td></td><td></td></tr> </tbody> </table>				Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul	1					2					3					4					5					6					7					8					9					10			
Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul																																																						
1																																																										
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BASKET OR TOTE COUNT OR TALLY								
**Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other								
Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1								
2								
3								

<b>VOLUME-TO-VOLUME</b> CATCH PILE SHAPE AS SEEN FROM ABOVE:  Other Shapes or Combinations: Draw & label all dimensions in comments.	<b>MAREL SCALE CALIBRATION WT</b> _____	DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.
--	--	--

**A1) REMAINDER VOLUME from previous haul(s)**

Starboard    Circle One:    Full Oval    Half-Oval    Rectangle

\_\_\_\_\_ ft X \_\_\_\_\_ ft X \_\_\_\_\_ ft (X 0.785) = \_\_\_\_\_ ft<sup>3</sup>

Width    Length    Avg. Depth    (ovals)    Volume

Depths: 


Port    Circle One:    Full Oval    Half-Oval    Rectangle

\_\_\_\_\_ ft X \_\_\_\_\_ ft X \_\_\_\_\_ ft (X 0.785) = \_\_\_\_\_ ft<sup>3</sup>

Width    Length    Avg. Depth    (ovals)    Volume

Depths: 


A1) TOTAL REMAINDER VOLUME (Starboard + Port) = \_\_\_\_\_ ft<sup>3</sup>

**A2) TOTAL VOLUME after current haul dumped**

Starboard    Circle One:    Full Oval    Half-Oval    Rectangle

\_\_\_\_\_ ft X \_\_\_\_\_ ft X \_\_\_\_\_ ft (X 0.785) = \_\_\_\_\_ ft<sup>3</sup>

Width    Length    Avg. Depth    (ovals)    Volume

Depths: 


Port    Circle One:    Full Oval    Half-Oval    Rectangle

\_\_\_\_\_ ft X \_\_\_\_\_ ft X \_\_\_\_\_ ft (X 0.785) = \_\_\_\_\_ ft<sup>3</sup>

Width    Length    Avg. Depth    (ovals)    Volume

Depths: 


A2) TOTAL CATCH PILE VOLUME (Starboard + Port) = \_\_\_\_\_ π

**COMMENTS :**

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<b>A) Total Haul Vol.</b> _____ ft <sup>3</sup>	<b>B) Total Subsample Vol.</b> _____ Basket(s) X 1.47 ft <sup>3</sup> = _____ ft <sup>3</sup> _____ Tote(s) X 2.65 ft <sup>3</sup> = _____ ft <sup>3</sup> _____ Other(s) X _____ ft <sup>3</sup> = _____ ft <sup>3</sup>	<b>C) Sample Weight Multiplier (A ÷ B)</b> _____
<b>OTHER SUBSAMPLE TYPES</b> <input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	<b>Unit Type</b> <b>A) Total</b> <b>B) Sample</b>	>> Copy to Front >>

**SCALLOP DREDGE OFF-WATCH HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBSDO OBHAU 01/01/21**

OBS/TRIP ID	
DATE LANDED mm/yy	/ /
PAGE #	of

WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				SEA SCALLOPS # OF BASKETS KEPT (AVERAGE)
				Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	
1	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
LAST HAUL	END	/ /	:	9960-		9960-		
2	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
LAST HAUL	END	/ /	:	9960-		9960-		
3	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
LAST HAUL	END	/ /	:	9960-		9960-		
4	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
LAST HAUL	END	/ /	:	9960-		9960-		
5	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
LAST HAUL	END	/ /	:	9960-		9960-		
6	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
LAST HAUL	END	/ /	:	9960-		9960-		
7	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
LAST HAUL	END	/ /	:	9960-		9960-		
8	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
LAST HAUL	END	/ /	:	9960-		9960-		
9	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
LAST HAUL	END	/ /	:	9960-		9960-		
0	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
LAST HAUL	END	/ /	:	9960-		9960-		



**LOBSTER, CRAB, & FISH POT GEAR CHARACTERISTICS LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBPTG 01/01/21**

OBS/TRIP ID	
DATE LANDED mm/yy	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE	GEAR NUMBER(S)	NUMBER OF POTS	COMMENTS
<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>			
<b>POT CHARACTERISTICS</b> Shape Code _____ Side Construction Code _____ <b>DIMENSIONS</b> Length (in) _____ Width (in) _____ Top _____ Bottom _____ Height _____ in	<b>ENTRANCE</b> Number _____ Inside Ring Size _____ in Location Unknown 0 _____ Top 1 _____ Side 2 _____ End 3 _____ Combination 8 _____ Other 9 _____	<b>SURFACE SYSTEMS</b> # of High Flyer(s) _____ # of Buoys _____ Surface Line Length (avg) _____ ft Type Code _____ Diameter _____ / _____ in	<b>ANCHOR(S)</b> USED? NO 0 ___ YES 1 ___ Number _____ Weight (total) _____ lbs Type Unknown 0 _____ Danforth-style 1 _____ Dead Weight 2 _____ Combination 8 _____ Other 9 _____
<b>GROUNDLINE</b> Length of Line Btw Pots (avg) _____ ft Type code _____ Diameter _____ / _____ in	<b>BIODEGRADABLE PANEL</b> USED? NO 0 ___ YES 1 ___ Attachment Type Unknown 0 _____ Iron Hog Rings 1 _____ Degradable Plastic 2 _____ Softwood Lathe 3 _____ Uncoated Wire 4 _____ Combination 8 _____ Other 9 _____	Mark? NO 0 ___ YES 1 ___ <b>WEAK LINKS</b> NO YES USED ON SURFACE? 0 ___ 1 ___ Number (total) _____ Type Code _____ <b>GANGIONS</b> USED? NO 0 ___ YES 1 ___ Length (avg) _____ ft Type Code _____ Diameter _____ / _____ in	<b>ANCHOR LINE</b> Length of Line Btwn Anchor & Gangion (avg) _____ ft Type Code _____ Diameter _____ / _____ in
<b>ESCAPE VENT</b> NO YES USED? 0 ___ 1 ___ Number _____ Shape Code _____ Length _____ . _____ in Height _____ . _____ in Location Unknown 0 _____ Top 1 _____ Side 2 _____ End 3 _____ Combination 8 _____ Other 9 _____	<b>BAIT METHOD</b> Unknown 0 _____ String 1 _____ Bait Bag 2 _____ Metal Ring 3 _____ Not Attached 7 _____ Combination 8 _____ Other 9 _____	<b>BUOYLINE</b> # of Buoyline(s) _____ Length (avg) _____ ft Type Code _____ Percent of Type _____ %/ _____ % (sinking/floating) Diameter _____ / _____ in Mark? NO 0 ___ YES 1 ___	<div style="text-align: center;"> <p><b>RECTANGULAR LOBSTER TRAP WIRE CONSTRUCTION</b></p> </div>

DIAGRAM FOR REFERENCE ONLY

⊙ = Weak Link

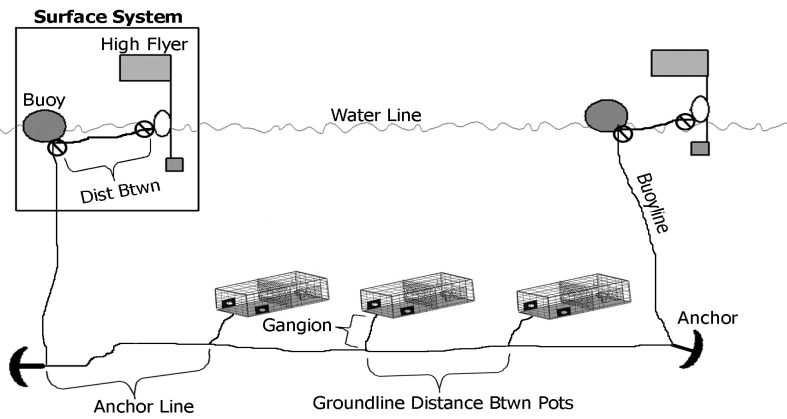


Photo Credit: NOAA Fisheries Service Northeast Regional Office (Original image modified to include additional information).

ADDITIONAL COMMENTS

**SHAPE CODES:**

- 00 = Unknown
- 01 = Rectangular
- 02 = Round / Oval
- 03 = 1/2 Round
- 04 = Cone
- 05 = Trapezoid
- 99 = Other

**SIDE CONSTRUCTION CODES:**

- 0 = Unknown
- 1 = Wood Lathe
- 2 = Plastic Coated Wire
- 3 = Twine Mesh
- 4 = Plastic Mesh
- 8 = Combination
- 9 = Other

**LINE / GANGION TYPE CODES:**

- 0 = Unknown
- 1 = Sinking / Neutrally Buoyant
- 2 = Floating
- 8 = Combination
- 9 = Other

**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

FOR OFFICE USE ONLY

**LOBSTER, CRAB, & FISH POT HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBPTH OBHAU OBSPP 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE	GEAR #	HAUL #	HAUL OBS? NO 0 _____ YES 1 _____	ON-EFFORT? NO 0 _____ YES 1 _____	CATCH? NO 0 _____ YES 1 _____	INC TAKE? NO 0 _____ YES 1 _____	WEATHER CODE	WIND SPEED _____ kn DIRECTION _____ °	WAVE HEIGHT _____ ft	DEPTH, HAUL BEGIN _____ fm	GEAR COND CODE
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SET INFO	DATE AND TIME mm/dd/yy 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				ESTIMATED SOAK DURATION	TARGET SPECIES	CODE(S)		
S E T	BEGIN / / : END / / :	Station 1 9960 -	Latitude / Bearing	Station 2 9960 -	Longitude / Bearing	_____ hrs	NUMBER OF POTS	BAIT		
HAUL INFO						WATER TEMP	SET _____ LBS	KIND	TYPE	COND
H A U L	BEGIN / / : END / / :	9960 -		9960 -		_____ ° F	HAULED _____ #1 _____			
		9960 -		9960 -			LOST _____ #2 _____			

COMMENTS	SET METHOD
	Unknown 00 _____ Visual 05 _____
	Temperature 01 _____ Mixed 98 _____
	Bottom Contours 02 _____ Other 99 _____
	Compass/Loran 03 _____
	Tide/Current 04 _____
	SAMPLE WEIGHT MULTIPLIER _____

SPECIES					SPECIES								
NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE	NAME	CODE	SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE
1								11					
2								12					
3								13					
4								14					
5								15					
6								16					
7								17					
8								18					
9								19					
10								20					

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

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

<b>SORTING METHOD</b> Check all that apply	<b>ESTIMATION METHODS</b>	
1 <input type="checkbox"/> Picked	01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
2 <input type="checkbox"/> Shoveled	05 = Tally	03 = Basket or Tote Count
3 <input type="checkbox"/> Deckloaded	02 = Volume-to-Volume	13 = Count-to-Count
4 <input type="checkbox"/> Conveyor System	14 = Weight-to-Weight	07 = Cumulative Sum
5 <input type="checkbox"/> Pumping System	12 = Trap Subsample	10 = Catch Composition Log
9 <input type="checkbox"/> Other (Comment)	04 = Captain	06 = Visually Estimated
	98 = Combination (Comment)	
	99 = Other (Comment)	

**MAREL SCALE**  
**CALIBRATION WT**  
 \_\_\_\_\_

**BASKET OR TOTE COUNT OR TALLY**

\*\*Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1						_____ . ____		
2						_____ . ____		
3						_____ . ____		
4						_____ . ____		
5						_____ . ____		
6						_____ . ____		
7						_____ . ____		
8						_____ . ____		
9						_____ . ____		
10						_____ . ____		

**VOLUME-TO-VOLUME**

CATCH PILE SHAPE AS SEEN FROM ABOVE:

**Trapezoid**  
  
**Rectangle**  
  
**Triangle**  
  
**Full Oval or Half-Oval**  
  
**Other Shapes or Combination:** Draw and label all dimensions in comments.  
 DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.  
 \_\_\_\_\_ = \_\_\_\_\_ ft³

COMMENTS :

<b>A) Total Haul Vol.</b> _____ ft³	<b>B) Total Subsample Vol.</b> Basket(s) X 1.47 ft³ = _____ ft³ Tote(s) X 2.65 ft³ = _____ ft³ Other(s) X _____ ft³ = _____ ft³	<b>C) Sample Weight Multiplier</b> (A ÷ B) _____ >> Copy to Front >>
<b>OTHER SUBSAMPLE TYPES</b>	<b>Unit Type</b> <input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	<b>A) Total</b> <b>B) Sample</b>

**DECKLOADING and CUMULATIVE SUM**

Entire Deckloading Haul Range	Deckloading Measurements			
_____ - _____	Total Pile Vol. _____ ft³	Remainder Pile Vol. _____ ft³		
	A) Total Haul Vol. _____ ft³			
Number of Hauls _____	*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.			
Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

**PURSE SEINE GEAR CHARACTERISTICS LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBPSG 01/01/21**

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	OF <input type="checkbox"/>

GEAR CODE <input type="text"/>	GEAR NUMBER(S) <input type="text"/>
-----------------------------------	--

**SEINE CHARACTERISTICS:**

	NET	BUNT
LENGTH	_____ fm	_____ fm
DEPTH	_____ fm	_____ fm
MESH SIZE	_____ . _____ in	_____ . _____ in
TWINE SIZE	_____ mm	_____ mm

**CONSTRUCTION MATERIAL**

Unknown	00	_____	_____
Nylon	01	_____	_____
Poly	02	_____	_____
Kevlar®	03	_____	_____
Spectra®	04	_____	_____
Combination	98	_____	_____
Other	99	_____	_____

**GEAR CHARACTERISTICS:**

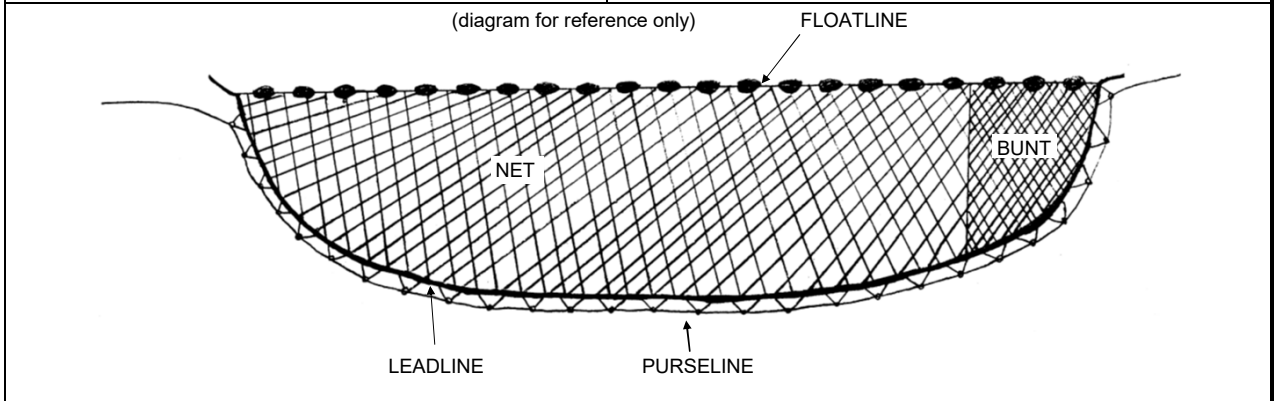
	LENGTH	DIAMETER
FLOATLINE	_____ fm	_____ . _____ in
LEADLINE	_____ fm	_____ . _____ in
PURSE LINE	_____ fm	_____ . _____ in
LEADLINE WEIGHT		_____ lbs
ADDITIONAL WEIGHTS	No 0 ____ Yes 1 ____	_____ lbs

**HAULING DEVICE**

Unknown	0 ____	Drum	3 ____
Power Block	1 ____	Other	9 ____
Triplex	2 ____		

**PURSE RINGS:**

TYPE		MATERIAL	
Unknown	0 ____	Unknown	0 ____
Round	1 ____	Steel	1 ____
Snap	2 ____	Iron	2 ____
Roller	3 ____	Alloy	3 ____
Combo	8 ____	Other	9 ____
Other	9 ____		



**COMMENTS**

**PURSE SEINE SET LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBPSH OBHAU OBSPP 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE [ ][ ][ ]	GEAR # [ ][ ]	HAUL # [ ][ ][ ]	HAUL OBS? NO 0 _____ YES 1 _____	ON-EFFORT? NO 0 _____ YES 1 _____	CATCH? NO 0 _____ YES 1 _____	INC TAKE? NO 0 _____ YES 1 _____	WEATHER CODE	WIND SPEED _____ kn      DIRECTION _____ °		WAVE HEIGHT _____ ft	DEPTH, HAUL BEGIN _____ fm	GEAR COND CODE
SET INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				SET SPEED	TARGET SPECIES CODE(S)				
BEGIN	/ /	:	Station 1 9960 -	Latitude / Bearing	Station 2 9960 -	Longitude / Bearing	_____ kn					
END	/ /	:	PLANE USED? NO 0 _____ YES 1 _____	TIME UP :	WATER TEMP (Fahrenheit) _____ ° F		NO 0	YES 1		NO 0	YES 1	
FISH PUMPING				TIME DOWN :			SET BY PLANE? _____		SUCCESSFUL SET? _____			
BEGIN	/ /	:					SET ON DEBRIS? _____		FISH LOST? _____			
END	/ /	:										

COMMENTS

SPECIES		POUNDS	DISP CODE	WEIGHT ESTIMATION		SPECIES		POUNDS	DISP CODE	WEIGHT ESTIMATION	
NAME	CODE			D/R	METHOD CODE	NAME	CODE			D/R	METHOD CODE
1						11					
2						12					
3						13					
4						14					
5						15					
6						16					
7						17					
8						18					
9						19					
10						20					

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

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

<b>SORTING METHOD</b> Check all that apply	<b>ESTIMATION METHODS</b>
1 <input type="checkbox"/> Picked	01 = Actual (Spring Scale)    11 = Actual (Electronic Scale)
2 <input type="checkbox"/> Shoveled	05 = Tally
3 <input type="checkbox"/> Deckloaded	02 = Volume-to-Volume    03 = Basket or Tote Count
4 <input type="checkbox"/> Conveyor System	14 = Weight-to-Weight    13 = Count-to-Count
5 <input type="checkbox"/> Pumping System	12 = Trap Subsample    07 = Cumulative Sum
9 <input type="checkbox"/> Other (Comment)	10 = Catch Composition Log
	04 = Captain    06 = Visually Estimated
	98 = Combination (Comment)
	99 = Other (Comment)

**MAREL SCALE**  
**CALIBRATION WT**  
 \_\_\_\_\_

**BASKET OR TOTE COUNT OR TALLY**

\*\*Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1						_____ . ____		
2						_____ . ____		
3						_____ . ____		
4						_____ . ____		
5						_____ . ____		
6						_____ . ____		
7						_____ . ____		
8						_____ . ____		
9						_____ . ____		
10						_____ . ____		

**VOLUME-TO-VOLUME**

CATCH PILE SHAPE AS SEEN FROM ABOVE:

**Trapezoid**  

$$\left( \frac{\text{Width 1} + \text{Width 2}}{2} \right) \times \text{Length} \times \text{Avg. Depth} \times 0.5 = \text{Volume } \text{ft}^3$$

**Rectangle**  

$$\text{Width} \times \text{Length} \times \text{Avg. Depth} = \text{Volume } \text{ft}^3$$

**Triangle**  

$$\left( \frac{\text{Width}}{2} \right) \times \text{Length} \times \text{Avg. Depth} \times 0.5 = \text{Volume } \text{ft}^3$$

**Full Oval or Half-Oval**  

$$\left( \frac{\text{Width}}{2} \right) \times \text{Length} \times \text{Avg. Depth} \times 0.785 = \text{Volume } \text{ft}^3$$

**Other Shapes or Combination:** Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. = \_\_\_\_\_ ft³  
 Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.    Volume

COMMENTS :

<b>A) Total Haul Vol.</b> _____ ft³	<b>B) Total Subsample Vol.</b> Basket(s) X 1.47 ft³ = _____ ft³ Tote(s) X 2.65 ft³ = _____ ft³ Other(s) X _____ ft³ = _____ ft³	<b>C) Sample Weight Multiplier</b> (A ÷ B) _____ >> Copy to Front >>
<b>OTHER SUBSAMPLE TYPES</b>	Unit Type <input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	A) Total    B) Sample

**DECKLOADING and CUMULATIVE SUM**

Entire Deckloading Haul Range _____	Deckloading Measurements			
	Total Pile Vol. _____ ft³	Remainder Pile Vol. _____ ft³	A) Total Haul Vol. _____ ft³	
Number of Hauls _____	*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.			
Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

**BEACH SEINE GEAR / BEACH ANCHORED GILLNET GEAR CHARACTERISTICS LOG  
NMFS FISHERIES OBSERVER PROGRAM**

**OBBSG OBBSW 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="text"/> OF <input type="text"/>

GEAR CODE <input type="text"/>	GEAR NUMBER(S)	NUMBER OF NETS
<b>BUNT CHARACTERISTICS:</b> USED? No (0) Yes(1)	<b>GEAR CHARACTERISTICS:</b> USED? NO YES MEASUREMENTS	<b>WING CHARACTERISTICS:</b> Net # Net # Net # Net # Net #
LENGTH _____ ft	WASH NET 0__ 1__ Length _____ ft	LENGTH (ft)
HEIGHT _____ ft	FLOATS 0__ 1__ Dist Between _____ ft	HEIGHT (ft)
MESH SIZE _____ in (circle one) A / E	ANCHOR (S) 0__ 1__	MESH SIZE (in)
MESH COUNT, VERTICAL _____	Number _____ Type Unknown 0__	A / E (circle)
HANGING RATIO _____ / _____	Weight (total) _____ lb Danforth-style 1__	MESH COUNT, VERTICAL
TWINE SIZE _____ (circle one) A / E	Actual 1__ Estimated 2__ Other 9__	HANGING RATIO
# STRANDS _____	LEADLINE WEIGHT _____ lbs / net	TWINE SIZE
COLOR CODE _____	<b>MM DETERRENT DEVICES USED?</b>	A / E (circle)
NET MATERIAL	ACTIVE 0__ 1__ Brand(s)	# STRANDS
Unknown 0__	Number _____ Unknown 0__	COLOR CODE
Nylon 1__	Frequency _____ kHz Airmar 2__	NET MATERIAL
Other 9__	Other 9__ Fumunda 3__	Unknown 0__
	PASSIVE 0__ 1__ Number _____	Nylon 1__
		Other 9__
<b>FLOATLINE MATERIAL</b>	<b>COLOR CODES</b>	<b>COMMENTS</b>
Unknown 0__	Unknown 00 Multi-color 07	
Floating (foam core) 1__	Clear 01 Red 08	
Twisted polypropylene 2__	White 02 Orange 09	
Other 9__	Pink 03 Purple 10	
	Black 04 Combinator 98	
	Green 05 Other 99	
	Blue 06	



**BEACH SEINE / BEACH ANCHORED GILLNET HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBBSH OBHAU OBSPP 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE <input type="text"/>	GEAR # <input type="text"/>	HAUL # <input type="text"/>	HAUL OBS? NO 0 _____ YES 1 _____	MM WATCH? NO 0 _____ YES 1 _____	CATCH? NO 0 _____ YES 1 _____	INC TAKE? NO 0 _____ YES 1 _____	WEATHER CODE	WIND SPEED _____ kn DIRECTION _____ °	WAVE HEIGHT ft	GEAR COND CODE
HAUL INFO	DATE (mm/dd/yy)	TIME (24 hrs)	LATITUDE/LONGITUDE (DD MM.M) - LORAN (XXXXX)				EST SOAK DUR	WATER TEMP	TARGET SPECIES	CODE(S)
BEGIN	/ /	:	Station 1	Latitude/Bearing	Station 2	Longitude/Bearing	°			
END	/ /	:	9960-		9960-		. hrs	. F		

COMMENTS	NUMBER OF NETS	IF MM DETERRENTS USED
	SET _____	ACTIVE _____ PASSIVE _____
	HAULED _____	HAULED _____
	LOST _____	LOST _____

SPECIES		POUNDS	DISP CODE	WEIGHT		SPECIES		POUNDS	DISP CODE	WEIGHT	
NAME	CODE			D/R	ESTIMATION METHOD CODE	NAME	CODE			D/R	ESTIMATION METHOD CODE
1							11				
2							12				
3							13				
4							14				
5							15				
6							16				
7							17				
8							18				
9							19				
10							20				

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

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

<b>SORTING METHOD</b> Check all that apply	<b>ESTIMATION METHODS</b>
1 <input type="checkbox"/> Picked	01 = Actual (Spring Scale)    11 = Actual (Electronic Scale)
2 <input type="checkbox"/> Shoveled	05 = Tally
3 <input type="checkbox"/> Deckloaded	02 = Volume-to-Volume    03 = Basket or Tote Count
4 <input type="checkbox"/> Conveyor System	14 = Weight-to-Weight    13 = Count-to-Count
5 <input type="checkbox"/> Pumping System	12 = Trap Subsample    07 = Cumulative Sum
9 <input type="checkbox"/> Other (Comment)	10 = Catch Composition Log
	04 = Captain    06 = Visually Estimated
	98 = Combination (Comment)
	99 = Other (Comment)

**MAREL SCALE**  
**CALIBRATION WT**  
 \_\_\_\_\_

**BASKET OR TOTE COUNT OR TALLY**

\*\*Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1						_____		
2						_____		
3						_____		
4						_____		
5						_____		
6						_____		
7						_____		
8						_____		
9						_____		
10						_____		

**VOLUME-TO-VOLUME**

CATCH PILE SHAPE AS SEEN FROM ABOVE:

**Trapezoid**  

$$\left( \frac{\text{Width 1} + \text{Width 2}}{2} \right) \times \text{Length} \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Rectangle**  

$$\text{Width} \times \text{Length} \times \text{Avg. Depth} = \text{Volume (ft}^3\text{)}$$

**Triangle**  

$$\left( \frac{\text{Width}}{2} \right) \times \text{Length} \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Full Oval or Half-Oval**  

$$\left( \frac{\text{Width}}{2} \right) \times \text{Length} \times \text{Avg. Depth} \times 0.785 = \text{Volume (ft}^3\text{)}$$

**Other Shapes or Combination:** Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

COMMENTS :

<b>A) Total Haul Vol.</b> _____ ft <sup>3</sup>	<b>B) Total Subsample Vol.</b> Basket(s) X 1.47 ft <sup>3</sup> = _____ ft <sup>3</sup> Tote(s) X 2.65 ft <sup>3</sup> = _____ ft <sup>3</sup> Other(s) X _____ ft <sup>3</sup> = _____ ft <sup>3</sup>	<b>C) Sample Weight Multiplier</b> (A ÷ B) _____ >> Copy to Front >>
<b>OTHER SUBSAMPLE TYPES</b>	Unit Type <input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	A) Total    B) Sample

**DECKLOADING and CUMULATIVE SUM**

Entire Deckloading Haul Range _____	Deckloading Measurements			
	Total Pile Vol. _____ ft <sup>3</sup>	Remainder Pile Vol. _____ ft <sup>3</sup>		
	A) Total Haul Vol. _____ ft <sup>3</sup>			
Number of Hauls _____	*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.			
Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

**LONGLINE GEAR CHARACTERISTICS LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBLLG 01/01/21**

OBS/TRIP ID	
DATE LANDED mm/yy	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE <input type="text"/>		GEAR NUMBER(S)		NUMBER OF HOOKS		SECTION LENGTH nm		NUMBER OF SECTIONS	
<b>MAINLINE</b>		<b>LEADERS</b>		<b>BUOYLINE</b>		<b>SURFACE SYSTEM</b>		<b>FLOATS **</b>	
# OF STRANDS _____		USED? NO 0 YES 1 _____		# of Buoylines _____		# of High Flyers _____		TYPE NO YES NUMBER AVG HOOKS BETWEEN	
DIAMETER ____ . ____ mm		LENGTH _____ ft		Length (avg) _____ ft		# of Buoys _____		Unknown 0 ____ 1 ____	
TEST _____ lbs		TEST _____ lbs		Type Code _____		Surface Line Length (avg) _____ ft		Polyball 0 ____ 1 ____	
MATERIAL _____		MATERIAL _____		Percent of Type _____ % / _____ % (sinking/floating)		Type Code _____		Bullet/Daub 0 ____ 1 ____	
COLOR _____				Diameter _____ / _____ in		Diameter _____ / _____ in		Other 0 ____ 1 ____	
<b>HOOKS</b>		<b>ANCHOR USED?</b>		Mark? NO 0 YES 1 _____		Mark? NO 0 YES 1 _____		<b>LIGHT STICKS USED? **</b>	
BRAND	MODEL/PATTERN	SIZE	NO 0 YES _____	WEIGHT _____ lbs				NO 0 YES 1 _____	
								COLOR _____	
								NUMBER _____	
<b>GANGIONS</b>		LENGTH		COUNT		<b>GROUNDLINE</b>		<b>WEAK LINKS</b>	
DISTANCE BETWEEN _____ ft		_____ ft		_____		USED? NO YES 0 ____ 1 ____		NO YES USED ON SURFACE? 0 ____ 1 ____	
DIAMETER ____ . ____ mm		_____ ft		_____		Length (total) _____ ft		Number (total) _____	
TEST _____ lbs		MATERIAL _____		Diameter _____ / _____ in		Type Code _____		Type Code _____	
COLOR _____								USED ON STRING? 0 ____ 1 ____	
<b>COMMENTS</b>								<b>SWIVELS</b>	
								USED? NO 0 YES 1 _____	
								# OF SWIVELS/GANGION _____	
								COLOR	
								Unknown 00 Multi-Color 07	
								Clear 01 Red 08	
								White 02 Orange 09	
								Pink 03 Purple 10	
								Black 04 Combination 98	
								Green 05 Other 99	
								Blue 06	
								<b>MATERIAL</b>	
								Unknown 0	
								Mono-filament Nylon 1	
								Cotton 2	
								Steel Wire 3	
								Multi-strand Nylon 4	
								Other 9	

\*\* only record for Pelagic Longline

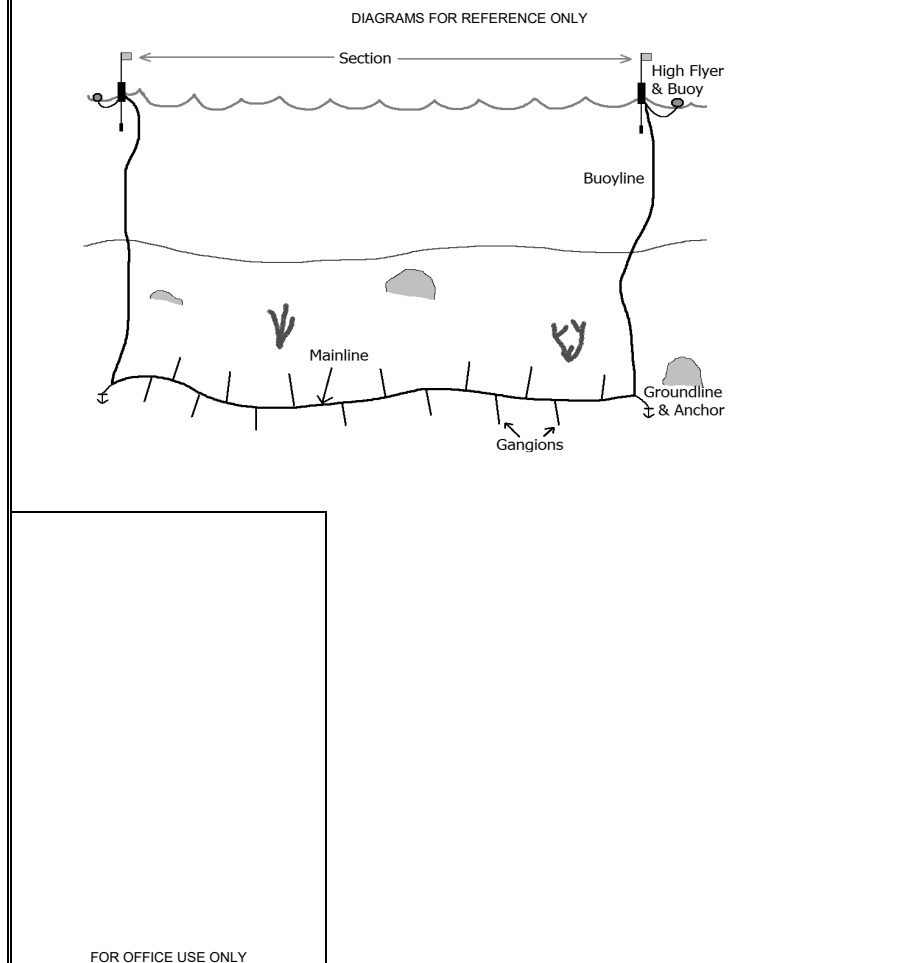
**WEAK LINK TYPE CODES:**

- 0 = Unknown
- 1 = Rope of Appropriate Breaking Strength
- 2 = Off the Shelf
- 3 = Overhand Knot
- 4 = Hog Rings
- 8 = Combination
- 9 = Other

**LINE TYPE CODES:**

- 0 = Unknown
- 1 = Sinking / Neutrally Buoyant
- 2 = Floating
- 8 = Combination
- 9 = Other

**ADDITIONAL COMMENTS**



FOR OFFICE USE ONLY

**LONGLINE HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBL LH OBHAU OBSPP 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE	GEAR #	HAUL #	HAUL OBS? NO 0 _____ YES 1 _____	ON-EFFORT? NO 0 _____ YES 1 _____	CATCH? NO 0 _____ YES 1 _____	INC TAKE? NO 0 _____ YES 1 _____	WEATHER CODE	WIND SPEED _____ kn DIRECTION _____ °	WAVE HEIGHT _____ ft	DEPTH, HAUL BEGIN _____ fm	GEAR COND CODE
-----------	--------	--------	--	---	-------------------------------------	--	--------------	---	-------------------------	----------------------------------	-------------------

SET/HAUL INFO	DATE mm/dd/yy	AND 24 hours	TIME	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				WATER TEMP	TARGET SPECIES	CODE(S)
S E T	BEGIN / /	:	9960 -	Latitude / Bearing	9960 -	Longitude / Bearing	_____ ° _____ F	MAINLINE LENGTH **	SET METHOD	
	END **	:	9960 -		9960 -					
H A U L	BEGIN **	:	9960 -		9960 -					
	END	:	9960 -		9960 -		_____ ° _____ F	_____ . _____ nm		

ITEMS USED?			NUMBER OF HOOKS		BAIT				SET SPEED		Unknown 00 ___ Temperature 01 ___ Bottom Contours 02 ___ Compass/Loran 03 ___ Tide/Current 04 ___ Visual 05 ___ Eddy 06 ___ Mixed 98 ___ Other 99 ___
TYPE	NO	YES	NUMBER	SET	LBS	KIND	TYPE	COND	_____ . _____ kn		
Rattlers	0	1	_____	_____							
Surface Lights	0	1	_____	HAULED					HOOK DEPTH		
Additional Line Wts	0	1	_____	LOST					RANGE	_____ . _____ fm	
WEIGHT OF ADDITIONAL LINE WEIGHTS _____ lbs				TENDED		SAMPLE WEIGHT MULTIPLIER	COMMENTS				** only record for Demersal and Pelagic Longline.
				REBAITED							

SPECIES			WEIGHT			
NAME	CODE	SAMP. WEIGHT	POUNDS	DISP CODE	D/R	ESTIMATION METHOD CODE
1						
2						
3						
4						
5						
6						
7						
8						
9						
10						

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

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

<b>SORTING METHOD</b> Check all that apply	<b>ESTIMATION METHODS</b>	
1 <input type="checkbox"/> Picked	01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
2 <input type="checkbox"/> Shoveled	05 = Tally	03 = Basket or Tote Count
3 <input type="checkbox"/> Deckloaded	02 = Volume-to-Volume	13 = Count-to-Count
4 <input type="checkbox"/> Conveyor System	14 = Weight-to-Weight	07 = Cumulative Sum
5 <input type="checkbox"/> Pumping System	12 = Trap Subsample	10 = Catch Composition Log
9 <input type="checkbox"/> Other (Comment)	04 = Captain	06 = Visually Estimated
	98 = Combination (Comment)	
	99 = Other (Comment)	

**MAREL SCALE**  
**CALIBRATION WT**  
 \_\_\_\_\_

**BASKET OR TOTE COUNT OR TALLY**

\*\*Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1						_____		
2						_____		
3						_____		
4						_____		
5						_____		
6						_____		
7						_____		
8						_____		
9						_____		
10						_____		

**VOLUME-TO-VOLUME**

CATCH PILE SHAPE AS SEEN FROM ABOVE:

**Trapezoid**  

$$\left( \frac{W1 + W2}{2} \right) \times L \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Rectangle**  

$$W \times L \times \text{Avg. Depth} = \text{Volume (ft}^3\text{)}$$

**Triangle**  

$$\left( \frac{W}{2} \right) \times L \times \text{Avg. Depth} \times 0.5 = \text{Volume (ft}^3\text{)}$$

**Full Oval or Half-Oval**  

$$W \times L \times \text{Avg. Depth} \times 0.785 = \text{Volume (ft}^3\text{)}$$

**Other Shapes or Combination:** Draw and label all dimensions in comments.

DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.

COMMENTS :

<b>A) Total Haul Vol.</b> _____ ft <sup>3</sup>	<b>B) Total Subsample Vol.</b> Basket(s) X 1.47 ft <sup>3</sup> = _____ ft <sup>3</sup> Tote(s) X 2.65 ft <sup>3</sup> = _____ ft <sup>3</sup> Other(s) X _____ ft <sup>3</sup> = _____ ft <sup>3</sup>	<b>C) Sample Weight Multiplier</b> (A ÷ B) _____ >> Copy to Front >>
<b>OTHER SUBSAMPLE TYPES</b>	Unit Type <input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	A) Total B) Sample

**DECKLOADING and CUMULATIVE SUM**

Entire Deckloading Haul Range	Deckloading Measurements			
_____ - _____	Total Pile Vol.	Remainder Pile Vol.		
	_____ ft <sup>3</sup>	_____ ft <sup>3</sup>		
	= _____ ft <sup>3</sup>			
Number of Hauls _____	*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.			
Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

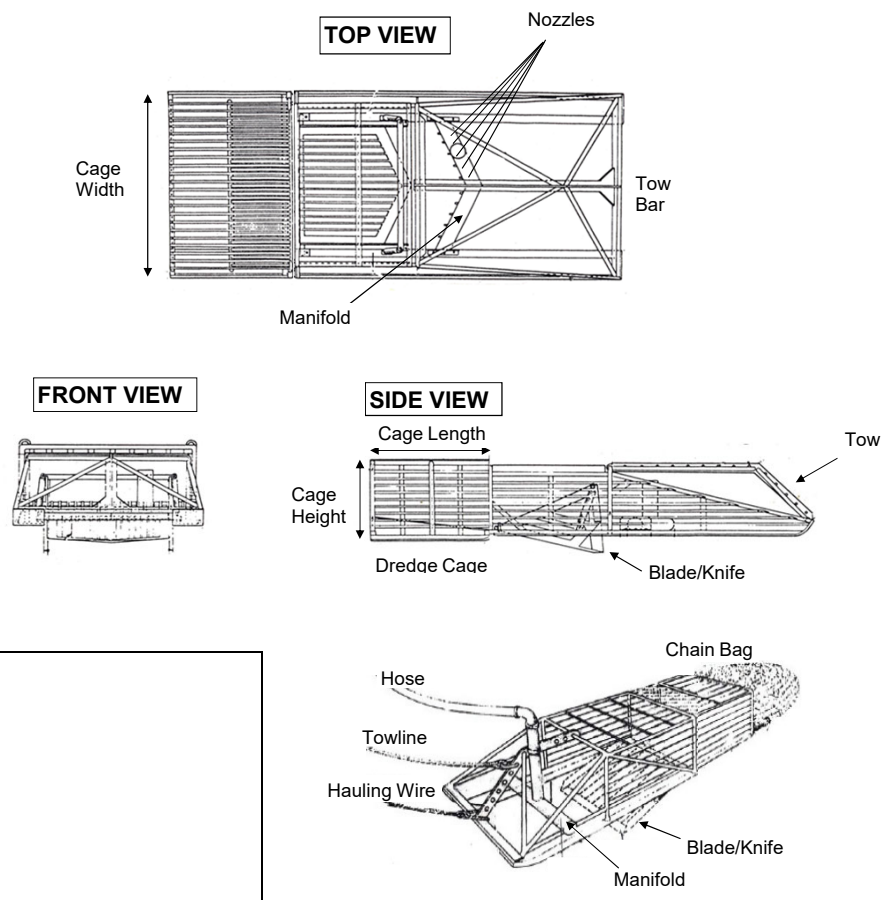
**CLAM/QUAHOG DREDGE GEAR CHARACTERISTICS LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBCDG 01/01/21**

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE <input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>		GEAR NUMBER(S)		If the dredge is fished off the stern, check box here  AFT (A) <input type="checkbox"/>		PORT DREDGE COMMENTS	
<b>PORT DREDGE (P)</b>				<b>STARBOARD DREDGE (S)</b>			
<b>DREDGE CAGE</b>		SORTER USED?		<b>DREDGE CAGE</b>		SORTER USED?	
HEIGHT	WIDTH	LENGTH	NO 0 ___ YES 1 ___	HEIGHT	WIDTH	LENGTH	NO 0 ___ YES 1 ___
_____ in	_____ in	_____ in		_____ in	_____ in	_____ in	
CAGE BOTTOM BAR BAR DIAMETER SPACING		NUMBER OF NOZZLES		CAGE BOTTOM BAR BAR DIAMETER SPACING		NUMBER OF NOZZLES	
_____ . _____ in	_____ . _____ in	_____		_____ . _____ in	_____ . _____ in	_____	
<b>CHAIN BAG</b>				<b>CHAIN BAG</b>			
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 _____ / _____			
INSIDE RING SIZE (mm) (5 random measurements)				INSIDE RING SIZE (mm) (5 random measurements)			
TOP OF BAG _____				TOP OF BAG _____			
BOTTOM OF BAG _____				BOTTOM OF BAG _____			
OUTSIDE RING SIZE _____ mm				OUTSIDE RING SIZE _____ mm			
<b>TOWLINE</b>				<b>TOWLINE</b>			
TOWLINE TYPE:		TOWLINE POSITION:		TOWLINE TYPE:		TOWLINE POSITION:	
Unknown	0 ___	Unknown	0 ___	Unknown	0 ___	Unknown	0 ___
Single	1 ___	Forward	1 ___	Single	1 ___	Forward	1 ___
Bridle	2 ___	Over Top of the Knife	2 ___	Bridle	2 ___	Over Top of the Knife	2 ___
Other	9 ___	Other	9 ___	Other	9 ___	Other	9 ___
_____		_____		_____		_____	
STARBOARD DREDGE COMMENTS							

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

DIAGRAMS FOR REFERENCE ONLY



ADDITIONAL PORT DREDGE COMMENTS

ADDITIONAL STARBOARD DREDGE COMMENTS

FOR OFFICE USE ONLY



**CLAM/QUAHOG DREDGE HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBCDH OBHAU OBSPP 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE <input type="text"/>	GEAR # <input type="text"/>	HAUL # <input type="text"/>	HAUL OBS? NO 0 <input type="text"/> YES 1 <input type="text"/>	ON-EFFORT? NO 0 <input type="text"/> YES 1 <input type="text"/>	CATCH? NO 0 <input type="text"/> YES 1 <input type="text"/>	INC TAKE? NO 0 <input type="text"/> YES 1 <input type="text"/>	WEATHER CODE	WIND SPEED <input type="text"/> kn DIRECTION <input type="text"/> °		WAVE HEIGHT <input type="text"/> ft	DEPTH, HAUL BEGIN <input type="text"/> fm	GEAR COND CODE	
HAUL/FISHING INFO	DATE mm/dd/yy	AND TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				WATER TEMP <input type="text"/> ° F	TOW SPEED <input type="text"/> kn	WIRE OUT <input type="text"/> fm		TARGET SPECIES CODE		
BEGIN HAUL	/ /	:	Station 1 9960 -	Latitude / Bearing	Station 2 9960 -	Longitude / Bearing	CLAM/QUAHOG CLAPPERS OBS? NO 0 <input type="text"/> YES 1 <input type="text"/>						
BEGIN FISHING	/ /	:	COMMENTS									SAMPLE WEIGHT MULTIPLIER <input type="text"/>	
END HAUL	/ /	:	9960 -		9960 -								
GEAR ONBOARD	/ /	:											

SPECIES		SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT		SPECIES		SUB-SAMPLE WEIGHT	POUNDS	DISP CODE	WEIGHT	
NAME	CODE				D/R	ESTIMATION METHOD CODE	NAME	CODE				D/R	ESTIMATION METHOD CODE
1		.					11		.				
2		.					12		.				
3		.					13		.				
4		.					14		.				
5		.					15		.				
6		.					16		.				
7		.					17		.				
8		.					18		.				
9		.					19		.				
10		.					20		.				

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

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

<b>SORTING METHOD</b> Check all that apply	<b>ESTIMATION METHODS</b>	
1 <input type="checkbox"/> Picked	01 = Actual (Spring Scale)	11 = Actual (Electronic Scale)
2 <input type="checkbox"/> Shoveled	05 = Tally	03 = Basket or Tote Count
3 <input type="checkbox"/> Deckloaded	02 = Volume-to-Volume	13 = Count-to-Count
4 <input type="checkbox"/> Conveyor System	14 = Weight-to-Weight	07 = Cumulative Sum
5 <input type="checkbox"/> Pumping System	12 = Trap Subsample	10 = Catch Composition Log
9 <input type="checkbox"/> Other (Comment)	04 = Captain	06 = Visually Estimated
	98 = Combination (Comment)	
	99 = Other (Comment)	

**MAREL SCALE**  
**CALIBRATION WT**  
 \_\_\_\_\_

**BASKET OR TOTE COUNT OR TALLY**

\*\*Unit Types: B = Basket, T = Tote, I = Individual (tally), O = Other

Species	Disp. Code	**Unit Type	List Individual Sample Weights	Total Sample Weight	# of Sample Units	Avg. Weight per Unit	Total # of Units	Total Est. Weight
1						_____		
2						_____		
3						_____		
4						_____		
5						_____		
6						_____		
7						_____		
8						_____		
9						_____		
10						_____		

**VOLUME-TO-VOLUME**

CATCH PILE SHAPE AS SEEN FROM ABOVE:

**Trapezoid**  
  
**Rectangle**  
  
**Triangle**  
  
**Full Oval or Half-Oval**  
  
**Other Shapes or Combination:** Draw and label all dimensions in comments.  
 DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. Include a single depth of 0.0 ft if the catch pile is not in a checker pen or slopes to zero.  
 \_\_\_\_\_ = \_\_\_\_\_ ft³

COMMENTS :

<b>A) Total Haul Vol.</b> _____ ft³	<b>B) Total Subsample Vol.</b> Basket(s) X 1.47 ft³ = _____ ft³ Tote(s) X 2.65 ft³ = _____ ft³ Other(s) X _____ ft³ = _____ ft³	<b>C) Sample Weight Multiplier</b> (A ÷ B) _____ >> Copy to Front >>
<b>OTHER SUBSAMPLE TYPES</b>	Unit Type <input type="checkbox"/> Basket <input type="checkbox"/> Tote <input type="checkbox"/> Weight <input type="checkbox"/> Trap <input type="checkbox"/> Count <input type="checkbox"/> Other	A) Total B) Sample

**DECKLOADING and CUMULATIVE SUM**

Entire Deckloading Haul Range _____	Deckloading Measurements Total Pile Vol. _____ Remainder Pile Vol. _____ A) Total Haul Vol. _____			
Number of Hauls _____	*Est.Meth.: Estimation Method used to obtain species Total Samp. Wgt. for cumulative sum calculation. If not '01' or '11' show all additional calculations & use '98' on front.			
Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
1				
2				
3				
4				
5				

**CLAM/QUAHOG DREDGE OFF-WATCH HAUL LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBCDO OBHAU 01/01/21**

OBS/TRIP ID	
DATE LANDED mm/yy	/ /
PAGE #	of

WATCH #	WATCH INFO	DATE mm/dd/yy	TIME 24 hours	LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)				CLAM/QUAHOG # OF BASKETS KEPT (AVERAGE)
				Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	
1	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
	END	/ /	:	9960-		9960-		
LAST HAUL								
2	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
	END	/ /	:	9960-		9960-		
LAST HAUL								
3	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
	END	/ /	:	9960-		9960-		
LAST HAUL								
4	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
	END	/ /	:	9960-		9960-		
LAST HAUL								
5	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
	END	/ /	:	9960-		9960-		
LAST HAUL								
6	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
	END	/ /	:	9960-		9960-		
LAST HAUL								
7	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
	END	/ /	:	9960-		9960-		
LAST HAUL								
8	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
	END	/ /	:	9960-		9960-		
LAST HAUL								
9	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
	END	/ /	:	9960-		9960-		
LAST HAUL								
0	BEGIN	/ /	:	9960-		9960-		
FIRST HAUL								
	END	/ /	:	9960-		9960-		
LAST HAUL								

**CATCH COMPOSITION LOG  
 NMFS FISHERIES OBSERVER PROGRAM  
 OBCMP 01/01/21**

OBS/TRIP ID	
DATE LANDED mm/yy	/
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>
HAUL #	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>

ESTIMATED PUMPING TIME \_\_\_\_\_ minutes

BASKET # \_\_\_\_\_ TIME \_\_\_\_\_ :

SPECIES	CODE	POUNDS (R/A)
SUBTOTAL		

BASKET # \_\_\_\_\_ TIME \_\_\_\_\_ :

SPECIES	CODE	POUNDS (R/A)
SUBTOTAL		

BASKET # \_\_\_\_\_ TIME \_\_\_\_\_ :

SPECIES	CODE	POUNDS (R/A)
SUBTOTAL		

BASKET # \_\_\_\_\_ TIME \_\_\_\_\_ :

SPECIES	CODE	POUNDS (R/A)
SUBTOTAL		

BASKET # \_\_\_\_\_ TIME \_\_\_\_\_ :

SPECIES	CODE	POUNDS (R/A)
SUBTOTAL		

BASKET # \_\_\_\_\_ TIME \_\_\_\_\_ :

SPECIES	CODE	POUNDS (R/A)
SUBTOTAL		

COMMENTS

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

BASKET # \_\_\_\_\_ TIME \_\_\_\_\_ :

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

BASKET # \_\_\_\_\_ TIME \_\_\_\_\_ :

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

BASKET # \_\_\_\_\_ TIME \_\_\_\_\_ :

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

BASKET # \_\_\_\_\_ TIME \_\_\_\_\_ :

SPECIES	CODE	POUNDS (R/A)
		.
		.
		.
		.
		.
SUBTOTAL		.

SPECIES	POUNDS (R/A)	PROPORTION OF TOTAL BASKET WEIGHT (a/b)	EXTRAPOLATED WEIGHT (lbs) (c x d)
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
	(a) .	(c) 0 .	
TOTAL	(b) .	1	

(d) TOTAL WEIGHT OF PUMPED CATCH (Captain's Estimate)	_____ lbs
---	-----------

**DISCARD LOG**  
**NMFS FISHERIES OBSERVER PROGRAM**  
**OBPDQ 01/01/21**

OBS/ TRIP ID	
DATE LAND (mm/yy)	/ /
PAGE #	<input type="checkbox"/> OF <input type="checkbox"/>

GEAR CODE <input type="text"/>	GEAR # <input type="text"/>	HAUL # <input type="text"/>	Why was the catch discarded on this haul? (CHECK ALL THAT APPLY)	Who estimated the weight of the discarded catch?	Was there an observer onboard the other vessel? If yes, provide the Tripid and Haul Number.	Check off the discard event. (CHECK ALL THAT APPLY)	REASONS NOT BROUGHT ONBOARD: Describe any reasons why the catch could not be pumped/hailed onboard.
Were there discards for this tow? ___ No (0) ___ Yes (1) ___ Unknown (9)	When the pumping/hauling process was complete were you able to see the contents of the codend/bunt? ___ No (0) ___ Yes, all contents seen on deck (1) ___ Yes, all/some contents seen in water (2)	<input type="checkbox"/> Unknown (0) (comment) <input type="checkbox"/> Market (1) <input type="checkbox"/> Regulations (2) <input type="checkbox"/> Quality (4) <input type="checkbox"/> Not brought onboard (5) <input type="checkbox"/> Other (9) (comment) <input type="checkbox"/> Not applicable	___ Observer (1) ___ Captain (2) ___ Combination (8) ___ Not applicable Was any of the catch pumped to another vessel? ___ No (0) ___ Yes (1) ___ Unknown (9)	___ No (0) ___ Yes (1) ___ Unknown (9) TRIPID: _____ HAUL #: _____	<input type="checkbox"/> Unknown (0) (comment) <input type="checkbox"/> Operational discards (1) <input type="checkbox"/> Tow was partially released (2) <input type="checkbox"/> Tow was fully released (3) <input type="checkbox"/> Discarded after being brought onboard (4) <input type="checkbox"/> Other (9) (comment) <input type="checkbox"/> Not applicable		
Was all catch brought to the observed vessel pumped/hailed onboard and completely sampled? ___ No (0) ___ Yes (1) ___ Not applicable							

CATCH COMPOSITION OF DISCARDED CATCH: Describe the catch composition of the discarded catch and how those determinations were made.

CHALLENGES OBSERVING THIS HAUL: Describe any challenges that occurred with observing this haul:

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

OBS/ TRIP ID	
DATE LAND (mm/yy)	/
PAGE #	OF
EVENT DATE (mm/dd/yy)	/ /

*Record notes or details on observed tows, such as species composition, estimated or extrapolated weights, gear or fishing conditions that may be out of the ordinary. If notes pertain to a specific tow, or times, please include that information below.*

VESSEL NAME	HULL NUMBER	COMMENTS CONTINUED ON BACK? NO 0 ____ YES 1 ____
-------------	-------------	--

COMMENTS

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 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 Service, Northeast 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 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.



# ASM MEAL REIMBURSEMENT FORM

East West Technical Services LLC

	Trip ID #
Monitor's Name:	
Vessel's Name:	
Captain's Name:	Phone:

<b>Trip Information</b>	
Departure Date:	Return Date:
Departure Time:	Return Time:
	Total Reimbursable Days:

<b>Recipient Information <i>Please Print Clearly</i></b>
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).*

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East West Technical Services LLC 86 Mumford Road Narragansett, RI 02882	Phone: 860-910-4957 Fax: 860-223-6005 Email: ewtsct@ewts.com
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**ASM  
VESSEL REIMBURSEMENT FORM  
TRIPS LONGER THAN 24 HOURS ONLY**

TRIP ID # \_\_\_\_\_

Subsistence Reimbursement Form for Vessel 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 that are greater than 24 hours dock to dock. For each 24 hour period starting when the vessel sails it will be reimbursed \$40. The chart below defines the reimbursement:

Total Time at Sea	Vessel Reimbursement	Total Time at Sea	Vessel Reimbursement
0 to < 24 hours (< 1 day)	\$0	168 to 191.9 hours (7 days)	\$280
24 to 47.9 hours (1 day)	\$40	192 to 215.9 hours (8 days)	\$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)	\$200	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 payable to \_\_\_\_\_

Attn: \_\_\_\_\_

F/V \_\_\_\_\_

Street \_\_\_\_\_

City, State, Zip \_\_\_\_\_

MAIL TO: AIS, Inc.  
P.O. Box 2093  
New Bedford, 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 Y N  
marine mammals, turtles and sea birds?

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 Y N  
samples (if required) from the catch?

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.

**NMFS FISHERIES OBSERVER PROGRAM  
TRIP DATA RELEASE FORM**

Request Date \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

Observer Trip ID # \_\_\_\_\_

Vessel Name \_\_\_\_\_

USCG Doc # \_\_\_\_\_

Date Landed \_\_\_\_\_/\_\_\_\_\_/\_\_\_\_\_

\_\_\_\_\_  
PRINT Name

\_\_\_\_\_  
Signature

PRINT Mailing Address:  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Copies Released By: \_\_\_\_\_ Date \_\_\_\_\_ Edited? Yes \_\_\_ No \_\_\_

**(For NMFS Office Use)**

TEAR AT PERFORATION AND RETAIN BELOW SECTION FOR YOUR RECORDS

The data you receive may be preliminary and not yet completely reviewed.

Observer Trip ID # \_\_\_\_\_

Date Requested \_\_\_\_\_

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

Questions or Comments:  
Gina Shield  
508-495-2139

**Dear Vessel Owner, Operator, or Fisherman:**

NOAA's National Marine Fisheries Service has selected your fishing vessel,

F/V \_\_\_\_\_

(United States Coast Guard (USCG) documentation or state # \_\_\_\_\_) to take an observer on:

- your next fishing trip;
- all fishing trips between the dates of \_\_\_\_\_, when fishing the following gear type \_\_\_\_\_, or when fishing under the following Vessel Monitoring System (VMS) declaration code \_\_\_\_\_.

You must notify the Observer Service Provider representative noted below at least twenty four (24) hours before the start of the vessel's next fishing trip. If you received this letter on the same day as a planned fishing trip, you must notify the Observer Service Provider immediately upon receiving this letter.

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 - if your vessel has certain federal permits, or you are participating in certain fisheries, 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](tel: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](http://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:

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*(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

OMB Control No.: 0648-0593

Expires on: XX/XX/20XX