NORTHEAST FISHERIES SCIENCE CENTER FISHERIES SAMPLING BRANCH OBSERVER DATA ENTRY MANUAL 2016





U.S. Department of Commerce NOAA Fisheries Service National Marine Fisheries Service Northeast Fisheries Science Center Fisheries Sampling Branch 166 Water Street Woods Hole, MA 02543

Paperwork Reduction Act Statement

Information collected through the observer program will be used to: (1) monitor catch and bycatch; (2) understand the population status and trends of fish stocks and protected species, as well as the interactions between them; (3) determine the quantity and distribution of net benefits derived from living marine resources; (4) predict the biological, ecological, and economic impacts of existing management actions and proposed management options; and (5) ensure that the observer programs can safely and efficiently collect the information required for the previous four uses. In particular, the observer program provides 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. Most of the information collected by observers is obtained through "direct observation by an employee or agent of the sponsoring agency or through non-standardized oral communication in connection with such direct observations".

Under the Paperwork Reduction Act (PRA) regulations at 5 C.F.R. 1320.3(h)(3), facts or opinions obtained through such observations and communications are not considered to be "information" subject to the PRA. The public reporting burden for responding to the questions that observers ask and that are subject to the PRA is estimated to average 74 minutes per trip, including the time for hearing and understanding the questions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information. However, depending on the fishery and trip duration, the public reporting burden can range from 4-250 minutes per trip. Send comments regarding this burden estimate or any other aspect of this collection of information, including suggestions for reducing this 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 mandatory under regulations at 50 C.F.R. 600.746 for the safety questions and at 50 C.F.R. §600.725, §600.746, §648.11; 16 U.S.C. 1387 §118; 16 U.S.C. 1531 et seq., 16 U.S.C. 742a §222 for the other questions. All information collected by observers 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 11/30/2015.

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Superscript indicates relevant programs for that section:

N = Northeast Fisheries Observer Program (NEFOP)

I = Industry Funded Scallop Program (IFS)

A = At Sea Monitoring Program (ASM)

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Introduction

The National Marine Fisheries Service (NMFS) Northeast Fisheries Science Center (NEFSC) Fisheries Sampling Branch (FSB) collections, maintains, and distributes data for scientific and management purposes in the northwest Atlantic Ocean. FSB manages three separate but related observer programs: the Northeast Fisheries Observer Program (NEFOP), the Industry Funded Scallop (IFS) Observer Program, and the At Sea Monitoring (ASM) Program. For the purposes of this manual, "observers" refers to any observer/monitor working for the FSB.

The purpose of this guide is to provide FSB observers, as well as end users of NEFSC Observer Program data, with a description of each data field collected. In addition to this manual, the <u>FSB Observer Operations Manual</u> provides detailed protocols and methods for observer data collection, and the <u>FSB Observer On Deck Guide</u> provides summaries and tables intended to enable observers to quickly determine the correct sampling priorities while at sea.

Using this Manual

Each section in this manual corresponds to a data collection log or worksheet, and accompanying at-sea data entry screen, if applicable. The logs labeled "NMFS NEFSC Fisheries Observer Program" are intended for use on NEFOP and IFS trips, whereas the logs labeled "NMFS NEFSC At-Sea Monitoring Program" should be used on ASM trips. In many cases, the ASM logs represent a subset of the data fields collected on NEFOP and IFS trips. The instructions for each data field are the same for all programs, unless otherwise noted. In the instructions, an asterisk (*) indicates fields which are collected on ASM trips. All fields should be collected on NEFOP and IFS trips, unless otherwise noted.

Detailed information for each fishery, such as background information, definitions, sampling protocols, and common scenarios are found in the <u>FSB Observer Operations Manual</u>. For data fields requiring observers to choose from or enter a code, the full code lists are provided in the Appendices. The Appendices contain other useful information, such as charts of statistical areas and common names for species, which are the same for all programs. Not all code lists will be applicable to all programs.

General Instructions

All data fields must be based on measurements/inspections made by the observer, or feedback given by the captain. Do not record assumptions. Verify uncertain information with the captain. Provide comments explaining any unusual situations. Record any calculations used to answer any of the questions.

If information is unavailable or unknown, it must be marked to show that it was not skipped:

- "Yes/No" question on paper logs record a "9" on the line next to the code for "No"
- Coded field on paper logs mark the box/line next to "Unknown"
- Coded field on electronic screens select the dropdown option for "Unknown"
- Numeric fields on paper logs record a dash ("—") in the field
- Numeric fields on electronic screens leave blank

If a field relates to a question to which you previously answered "No", leave the field blank.

An asterisk (*) indicates fields which are collected on ASM trips. All fields should be collected on NEFOP and IFS trips, unless otherwise noted. Logs that are common to all programs will be noted as such in the instructions; these will not have asterisks as all fields will be collected on all trips.

Pre-Trip Vessel Safety Checklist

This Pre Trip Vessel Safety Checklist (PTVSC) is a detailed log of the safety equipment and safety practices onboard a vessel. All fields on this log are required to be completed before the departure of a trip, with the exception of date land and observer signature, which must be completed at the end of the trip. This log is required for all programs.

DO NOT make any markings or notes outside of the designated areas on the front of the log. If you have comments, record them in the appropriate box in the comments section on the back of the log. If information is unavailable or unknown regarding a piece of safety equipment or safety practices, leave the associated box(es) blank and comment in the comments section on the back of the log. DO NOT record partial numbers or partial dates. ONLY make comments regarding legitimate safety and stability concerns or an explanation as to why a field was left blank. All equipment expiration dates are to be recorded in the MM/YY format (2-digit month and 2-digit year). DO NOT put slashes (/) or dashes (—) in any of the boxes when recording expiration dates.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Vessel Name	Leave a space between words.	N/A	Cannot be unknown.
2	Trip ID	See instructions on Vessel and Trip Information Log.	3-character ObsID plus 3- digit trip number	Cannot be unknown.
3	Hull Number	Either the US Coast Guard Documentation Number or the state registration number.	Up to 8 characters	Cannot be unknown.
4	Date Landed	See instructions on Vessel and Trip Information Log.	MM/DD/YYYY	Cannot be unknown.
5	Vessel Orientation – did you conduct a vessel walk through?	Yes/No.	Checkbox	Cannot be unknown.
6	Current USCG Commercial Fishing Vessel Safety Examination Decal	Yes/No.	Checkbox	May not deploy if unknown. Contact FSB to verify Safety Examination.
6a	Safety Decal Number	Obtain from decal or USCG documentation.	6 characters	
6b	Expiration Date	Obtain from decal or USCG documentation.	MM/YY	
7	Emergency Position Indicating Radio Beacon (EPIRB)	Yes/No/Not Required. Comment if not required.	Checkbox	Cannot be unknown.
7a	Hydrostatic release service expiration date	Obtain from EPIRB unit (opened by captain/crew) or previously-issued EVIC.	MM/YY	Leave blank if EPIRB not required or EVIC used.
7b	Battery expiration date	Obtain from EPIRB unit (opened by captain/crew) or previously-issued EVIC.	MM/YY	Leave blank if EPIRB not required or EVIC used .
8	Does the alphanumeric code (UIN) on the NOAA SARSAT decal match the UIN code on EPIRB?	Yes/No.	Checkbox	Cannot be unknown.

All fields on this form should be filled out prior to <u>any</u> observed fishing trip, regardless of program.

Special Instructions Format Format 9 Is the EPIRB registred owner? ¹ Obtain from decal. Checkbox Cannot be unknown. 9a EPIRB registration expiration date Obtain from decal or alternate documentation which lists the expiration date. MM/YY Cannot be unknown. 10 Life Raft(s) Yes/No/Not Required. Comment if not required. Checkbox Cannot be unknown. 10a Hydrostatic releases service expiration date Obtain from unit. MM/YY Leave blank if life raft not required or "float free" style. 10b Raft service (repack) expiration date Obtain from unit. MM/YY Leave blank if life raft not required or hard shell "pod" or "egg" style. 10c Capacity Obtain from unit. MM/YY Leave blank if life raft not required or raft has a buoyant apparatus. 11 Is the life raft configured personal floatation devices Yes/No./Not Required. Checkbox Cannot be unknown. 12 Immersion suits and personal floatation devices Yes/No./Not Required. Checkbox Cannot be unknown. 14 Fire extinguishers Yes/No./Not Required. Checkbox Cannot be unknown. 13 <th>Field #</th> <th>Name</th> <th>Collection Type/</th> <th>Units/</th> <th>Unknown Values</th>	Field #	Name	Collection Type/	Units/	Unknown Values
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¹ When an EPIRB is correctly registered, it can greatly enhance Search and Rescue efforts.

OMB Control No. 0648-0593 valid through 10/31/2018					
	essel r	name 1			
	ip ID ull num	2 nber 3	Northeast Fisheries Science Center, Fisheries Sampling Branch PRE TRIP VESSEL SAFETY CHECKLIST (PTVSC) For each safety item shade ■ in the appropriate box.		
Da	ate lan	ided (M	M/DD/YYYY) 4 It is MANDATORY that all safety items on board a fishing vessel that are highlighted in BOLD print be current (not expired) in order for an observer to deploy on a trip.		
Y	N	NR 5	Vessel OrientationPlease comment on any safety or stability related issues in the provided spaces on the back of the PTVSC		
		6	Current USCG Commercial Fishing Vessel Safety Examination Decal		
			*Required for all vessels carrying an observer on board Safety Decal Number Expiration (MM/YY)		
		□ 7	Emergency Position Indicating Radio Beacon (EPIRB) *Required for all vessels operating beyond 3 miles Hydrostatic release service expiration Battery expiration (MM/YY)		
		8	Does the alphanumeric code (UIN) on the NOAA SARSAT decal match the UIN code on EPIRB?		
		9	Is the EPIRB registered to the vessel or vessel owner? Expiration (MM/YY)		
		□ 10	<u>Life raft(s)</u> *Not required for vessels within 12 mi. of coast, ≤ 3 people and length <36'.		
			Hydrostatic release service expiration (MM/YY)		
			Raft service (repack) expiration (MM/YY)		
			Capacity		
		🗌 11	Is the life raft configured correctly? See back of sheet for figure of the hydrostatic release		
		12	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.		
		□ 13	<u>Life rings</u> Vessels <26' = cushion, >26' = 1 life ring buoy, >65' = 3 life ring buoys		
		□ 14	<u>Fire extinguishers</u> *Not required for vessels <26' with outboard motor(s) and portable fuel tanks		
		15	Emergency signaling flares *Check expiration dates <pre><pre><pre><3mi. = night light and smoke or 3 day/night flares; >3mi. = 3 parachute, 6 hand held, 3 smoke</pre></pre></pre>		
		16	First aid material		
		17	Radio(s)		
		18	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.		
		19	Did you provide any additional comments?		

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

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

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

- 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:

20 🗌	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 & exp	piration dates required)
Si	Signature Date	

V			OMB Control No. 0648-0593 valid through 10/31/2018
` 		SS	
			Northeast Fisheries Science Center, Fisheries Sampling Branch
	X 9	9 0	0 1 PRE TRIP VESSEL SAFETY CHECKLIST (PTVSC)
Н	ull nun	nber	Y = yes, N = no, NR = not required
	9 8	7 6	5 4
D	ate lar	nded (M	M/DD/YYYY)
	0 5	/ (1 / 2 0 1 6 order for an observer to deploy on a trip.
Y	N □	NR	Vessel OrientationPlease comment on any safety or stability related issues in the provided spaces on the back of the PTVSC
			Current USCG Commercial Fishing Vessel Safety Examination Decal
			*Required for all vessels carrying an observer on board
_	_	_	
			Emergency Position Indicating Radio Beacon (EPIRB) *Required for all vessels operating beyond 3 miles
			Hydrostatic release service expiration 0 3 1 7 (MM/YY)
			Battery expiration 0 7 1 7 (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 0 2 1 6 (MM/YY)
			<u>Life raft(s)</u> *Not required for vessels within 12 mi. of coast, ≤ 3 people and length <36'.
			Hydrostatic release service expiration 0 9 1 6 (MM/YY)
			Raft service (repack) expiration $0 5 1 6$ (MM/XX)
			Capacity 0 6
			Is the life raft configured correctly? See back of sheet for figure of the hydrostatic release
			Immersion suits and personal flotation devices
			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
			<u>Fire extinguishers</u> *Not required for vessels <26' with outboard motor(s) and portable fuel tanks
			Emergency signaling flares *Check expiration dates -3mi. = night light and smoke or 3 day/night flares; >3mi. = 3 parachute, 6 hand held, 3 smoke
			First aid material
			Radio(s)
			Were there any stability concerns/issues, either because of behavior or vessel design, during this trip? *See back of sheet for examples. If yes, please comment.
			Did you provide any additional comments?

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

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

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

- 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?



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 inspec	ted the EPIRB; Reco	rd EVIC information I	pelow if on	e was issued	
EVIC number	0 3 1 5 4	Date issued 0 5	5 1 6	(MM/YY)	
L					
□ I used a previou	usly issued EVIC; Rec	cord EVIC information	n below	A B 1 000	
EVIC number		Date Issued		(IVIIVI/YY)	
I used approved	d USCG documentation	on that was issued w	ithin the las	st 90 days (comments & expiration dates required	I)
	Observer Lee			05/01/2016	
Signature ———			Date		

Vessel and Trip Information Log

Each fishing trip is defined as the moment the vessel leaves the dock and then returns to either the same port or a different port. A single observer deployment may span multiple trips, depending on the vessel activity. Examples:

- Vessel leaves Port A, goes fishing, and returns to Port A.
 - This is one observed trip.
 - Vessel leaves Port A, goes fishing, offloads some catch at Port B, then offloads the rest of the catch at Port A.
 - The time from leaving Port A until landing in Port B is one observed trip.
 - The transit time from leaving Port B to landing in Port A is a second observed trip.
- Vessel leaves Port A, picks up a crew member in Port B, goes fishing, anchors at Port C due to weather, offloads all catch at Port B, then returns to Port A.
 - The transit time from leaving Port A until landing in Port B is one observed trip.
 - The time from leaving Port B to anchoring in Port C is a second observed trip.
 - The time from leaving Port C to landing in Port B is a third observed trip.
 - The transit time from leaving Port B until landing in Port A is a third observed trip.

Comments

Record any additional information regarding the trip and associated expenditures below. Include a comment regarding training trip or non-"000" trips (i.e., write "training trip" in comments, etc.). If more room is needed, use the back of this log, making sure to write "See Back" on the front of the log. Reference each comment with its corresponding field name.

Anytime a trip ends within a deployment, explain the reason why and any time spent away from the vessel (e.g., "came in for weather, stayed in hotel from 2300 to 0400").

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1*	Observer/Trip Identifier	3-character Observer Identifier	6 characters	Cannot be unknown.
		combined with 3-digit Trip Number		
		(sequential by calendar year).		
1a*	Trip Extension	See .Appendix E – Trip Extensions	1 character	Cannot be unknown.
2*	Program Code	See Appendix F – Program Codes.	3-digit code	Cannot be unknown.
3*	Sector ID Code	Obtain from captain.	3-digit code	Leave blank if not
		See Appendix G – Sector and Fleet		observing a sector trip
		Codes		(NEFOP and IFS only).
4	Fleet Code	Obtain from captain.	3-digit code	Leave blank if
		See Appendix G2 – Fleet Codes.		observing a sector trip
				(NEFOP and ASM
				only).
5*	Vendor ID Code	Obtain from the Observer Service	2-digit code	Cannot be unknown.
		Provider.		
		See Appendix H – Vendor ID Codes.		
6*	Incidental Takes	<u>N</u> one/Seabird/ <u>M</u> arine Mammal/Sea	Checkbox	Cannot be unknown.
		<u>T</u> urtle.		
		Mark all that apply.		
7	Age Structures	Envelopes (scales or otoliths) or	Checkbox	Leave blank if no
		<u>Froz</u> en samples (vertebrae or heads)		samples taken.
8	Whole Fish	Yes/No.	Checkbox	Cannot be unknown.
9*	Field Diary	Yes/No.	Checkbox	Cannot be unknown.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
10	Fishermen Comment Log	Yes/No.	Checkbox	Cannot be unknown.
		Only mark "Yes" if the log is physically		
		in the trip.		
11*	Vessel Name #1	Obtain from captain.	N/A	Cannot be unknown.
12*	Vessel Hull Number #1	Obtain from captain.	Up to 8	Cannot be unknown.
		Either the US Coast Guard	characters	
		Documentation Number or the state		
		registration number.		
13*	Vessel Permit Number	Obtain from captain.	6 digits	Leave blank if vessel
	#1			does not have a
				federal permit.
14*	Port Sailed	Include port name and state.	N/A	Cannot be unknown.
15	Port Code	Filled in by FSB staff for data entry.	6 digits	Cannot be unknown.
		Observers: leave blank.		
16*	Date Sailed	When the vessel leaves the dock.	MM/DD/YY	Cannot be unknown.
		Beach Seine: when the dory leaves		
		the trailer and heads out through the		
		surf to set the gear.		
17*	Time Sailed	Local time the vessel leaves the dock.	HH:MM (24hr)	Dash and record
				estimated time in
				comments.
18	Vessel Name #2	Obtain from captain.	N/A	Only filled in for pair
10				trawl and carrier trips.
19	Vessel Hull Number #2	Obtain from captain.	Up to 8	Only filled in for pair
		Either the US Coast Guard	characters	trawl and carrier trips.
		Documentation Number or the state		
20		Pegistration number.	Caliaita	Leove blenk if vegeel
20	vessel Permit Number	Obtain from captain.	6 digits	Leave blank if vessel
	#2	Unly filled in for pair trawl and carrier		does not have a
21*	Dortlandod	linglude port name and state	NI/A	Connot be unknown
21	Port Codo	Filled in by ESP staff for data entry	N/A 6 digita	Cannot be unknown.
22	Port Code	Cheervers: loove blank	6 digits	Cannot be unknown.
))*	Data Landad	When the vessel arrives at the $deck^2$		Cannot ha unknown
25	Date Landed	Poach Soine: when the fiching		Califiot be uliknown.
		operations have ended and all fish		
		baye been nicked and sorted		
2/1*	Time Landed	Local time the vessel arrives at the	HH·MM (24br)	Dash and record
24		dock	1111.101101 (24111)	estimated time in
		dock.		comments
25	Home Port	Obtain from cantain	N/A	Record most specific
25		Where vessel ties up not always port		location nossible
		name on boat.		(county or state)
26	Port Code	Filled in by ESB staff for data entry	6 digits	Cannot be unknown
20		Observers: leave blank		
27	Expected Trin Duration	Ask before the vessel leaves port	Up to 2 digits	Dash.
28	Crew Size	Include captain.	Up to 2 digits	Dash.
			1	

 $^{^{\}rm 2}$ See top of page 8 for definition of an observed trip.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
29*	Dealer's Name	Obtain from captain.	N/A	"Unknown".
		If no dealer, use "No Catch", "No		
		Sale", "Bait", or "Home Consumption"		
		as appropriate.		
30*	Vessel Trip Report (VTR)	Obtain from captain.	Up to 15 digits	"00000000".
	Serial Number	Comment on any additional VTR		
		numbers used.		
30a*	eVTR Trip ID	Obtain from captain.	Up to 15 digits	Dash if not used.
		ASM logs/screens only.		
		NEFOP and IFS: record in field #30.		
31	Steam Time	Time between vessel leaving the dock	Hours, to the	Dash.
		and arriving at the location where the	nearest tenth	Dash for all Beach
		gear is first deployed/hauled.		Seine trips.
		Does not include time spent waiting		
		at the fishing grounds (e.g., weather,		
		second vessel).		
32	Trip Type	Single or Multiple Gear.	Check one	Cannot be unknown.
33*	Ice Used	Obtain from captain at end of trip.	Tons, to the	Check "Unknown".
		If none used, record "0.00".	nearest	
		Includes ice made by the vessel.	hundredth	
		May include ice purchased for a		
		previous trip.		
34*	Fuel Used	Obtain from captain at end of trip.	Gallons, whole	Check "Unknown".
35*	Damage and Loss	Obtain from captain at end of trip.	Dollars, whole	Check "Unknown".
	Estimated Cost	Does not include normal wear and		
		tear.		
		Describe in comments.		
36*	Supplies Cost	Obtain from captain.	Dollars, whole	Check "Unknown".
		Ex: gloves, boot liners, knives, picks,		
		hooks, boxes, bags, ties, rags, tape.		
37*	Food Cost	Obtain from captain.	Dollars, whole	Check "Unknown".
		Include drinking water and observer's		
		food, if paid by vessel.		
38*	Ice Cost	Obtain from captain.	Dollars, whole	Check "Unknown".
		If vessel makes its own ice, record		
		"0.00".		
		If no ice used, record "0.00".		
39*	Fuel price per gallon	Obtain from captain before leaving	Dollars, to the	Check "Unknown".
		port.	nearest cent	
40*	Water Cost	Obtain from captain.	Dollars, whole	Check "Unknown".
		It vessel makes its own water, record		
		"0.00".		
		Do not include drinking water.		
41*	Oil Cost	Obtain from captain.	Dollars, whole	Check "Unknown".
		May be purchased for more than one		
		trip; only record the cost for this trip.		
42*	Bait Cost	Obtain from captain.	Dollars, whole	Check "Unknown".

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
43*	Primary Gear Name	Used on the majority of hauls. If tie, record gear with most nets (gillnet) or highest kept catch. See Appendix I – Gear Codes.	N/A	Cannot be unknown.
44*	Primary Gear Code	See Appendix I – Gear Codes.	3-digit code	Cannot be unknown.
45*	Other Gear(s)	Any other fishing gear onboard the vessel, soaked, used, or secured. ASM: only record gear used. See Appendix I – Gear Codes.	N/A	Leave blank if no other gear.
46*	Other Gear Code(s)	See Appendix I – Gear Codes.	3-digit code	Leave blank if no other gear.
47	Hauled/Used	Yes/No.	Check one	Cannot be unknown if gear listed.
48	Number Onboard	Obtain from captain at start of trip. Longline: nautical miles of mainline. Pots/traps: individual pots/traps. Gillnets: net panels (total for all strings). Trawls: nets. Dredge gears: dredges. Beach Seine: net panels onboard dory; only if observer present for set. Pair trawl: only nets onboard your vessel.	Longline: Nautical miles, to the nearest tenth Other gears: whole number	Dash.
49	Number Soaking	Obtain from captain at start of trip. Record "0" for all mobile gears. For fixed gears, see #48. Beach Seine: number soaking prior to observer's arrival, if not present for set.	Longline: Nautical miles, to tenths Other gears: whole number	Dash.
50	captain Experience	Obtain from captain. Gear-specific, not target. If less than 6 months, record "0".	Whole number	Dash. Dash if gear not used.
51*	Target Species	Obtain from captain at beginning of trip. Be as specific as possible. See Appendix T – Species Codes. Cannot target dressed species (parts).	NEFOP and IFS: up to 5 unique species/group names per box ASM: record secondary target species under 51a	Dash if gear not used.
*51a	Target Species 2	Obtain from captain at beginning of trip. ASM only. See Appendix T – Species Codes.	N/A	Dash if no secondary target species.
52	Target Species Code	Filled in by FSB staff for data entry. Observers: leave blank.	4-digit code	Cannot be unknown.
53	Time Lost Reason Code	See Appendix J – Time Lost Codes.	2-digit code	Leave blank if no time lost.
54	Time Lost Amount	Per reason code. Only include time lost during the trip.	Hours, to the nearest tenth	Leave blank if no time lost.
55	Number of Trip Hauls	Total hauls.	Whole number	Cannot be unknown.
56	Number of Unobserved Hauls	Include off-watch hauls.	Whole number	Cannot be unknown.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
57	Primary Species Landed	Greatest total number of pounds	N/A	Cannot be unknown.
		landed (kept and sold).		If no sale, use "No
		See Appendix T – Species Codes.		sale" or "No catch" as
				appropriate.
58*	Photos	Yes/No.	Check one	Cannot be unknown.
59	Soaked	Yes/No.	Check one	"9"
		In a solution other than seawater.		
60	Number of Bags	Obtain from captain at end of trip.	Whole number	Dash.
		Shucked scallops.		Comment if not
				shucked at sea.
61	Average Weight per	Obtain from captain at end of trip.	Whole pounds	Dash.
	Bag		Average	
62*	Date Arrived at Dock	When you arrived at the dock.	MM/DD/YY	Only filled in for first
				trip of deployment.
63*	Time Arrived at Dock	Local time when you arrived at the	HH:MM (24hr)	Dash and record
		dock.		estimated time in
				comments.
64*	Date Disembarked	When you left the vessel and removed	MM/DD/YY	Only filled in for last
		your gear.		trip of deployment.
65*	Time Disembarked	Local time when you left the vessel and	HH:MM (24hr)	Dash and record
		removed your gear.		estimated time in
				comments.

Aborted Trips

If a trip is aborted, much of the information will be unknown. For the following fields, record the values indicated below. For all other fields, record as usual.

Field #	Name	Record on Aborted Trips
29*	Dealer's Name	"No Catch".
31	Steam Time	Dash.
32-42*	Trip Costs	Record expenses incurred during the trip. Do not record expenses that would have been used had the trip not been aborted.
43-44*	Primary Gear	Record the name and code of the gear the captain intended to use.
53-54	Time Lost	Do not record any time lost.
57	Primary Species Landed	"None".
59	Soaked	"9" on the line next to "No".
60	Number of Bags	Dash.
61	Average Weight per Bag	Dash.

Transit Trips

A transit trip is defined as when the vessel is moving between ports with no intention to engage in fishing activities. The <u>Transit Trip Log</u> is a variation of the <u>Vessel and Trip Log</u>, with the non-required fields greyed out and appropriate "unknown" values pre-filled. One new field has been added to validate trip extension:

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
66*	Fish Onboard?	Confirm with captain. "Fish" refers to any catch product. If No, use trip extension T. If Yes, use trip extension U.	Check one	Cannot be unknown.

VESSEL AND TRIP INFORMATION LOG DATE RECEIVED ш -OFFICE NMES NEESC FISHERIES OBSERVER PROGRAM EDITED BY **OBTRP OBTRG OBTRS 05/01/16** DEPLOYOMENT ID 8 FIELD DIARY 9 AGE STRUCTURES 7 WHOLE FISH COMMENT LOG 10 OBS/TRIP ID 1 1a PROGRAM CODE SECTOR ID FLEET VENDOR ID INCIDENTAL TAKES 6 2 3 4 5 Ν В т Froz. Υ Μ Env. Ν Y Ν Ν Y VESSEL NAME # 1 VESSEL NUMBER # 1 PORT SAILED (CITY, STATE) CODE TIME SAILED VESSEL PERMIT # 1 DATE SAILED mm/dd/vv 24 h 15 11 12 13 14 16 17 : VESSEL NAME # 2 VESSEL NUMBER # 2 VESSEL PERMIT # 2 PORT LANDED (CITY, STATE) CODE DATE LANDED 23 mm/dd/vv TIME LANDED 24 h 22 18 19 20 21 24 : HOME PORT (CITY, STATE) CODE EXP. TRIP DUR CREW SIZE DEALER'S NAME VTR SERIAL NUMBER STEAM TIME (calc) (INCLUDE CAPT) 25 26 27 day(s) 28 29 30 31 hrs TRIP TYPE TRIP COSTS Single Gear ICE USED FUEL USED DAMAGE/LOSS ' SUPPLIES * FOOD ICE (PER TON) FUEL (PER GAL) WATER BAIT OIL **32** 1 33 34 Unknown 35 Unknown 36 Unknown 37 Unknown 38 Unknown 39 Unknown 40 Unknown 41 Unknown 42 Multiple Gear . 00 .00 . ___ tn gal \$.00 \$.00 \$.00 \$ \$ \$ \$ \$.00 2 **GEAR INFORMATION (IN USE & STOWED)** TIME LOST * PRIMARY GEAR CODE USED? # ONBRD # SOAK CAPT EXP (yrs) TARGET SPECIES CODE(S) REASON AMOUNT 43 44 **47** 0 48 49 50 51 52 53 54 No Yes 1 hrs 53 54 OTHER GEAR 1 CODE USED? # ONBRD # SOAK CAPT EXP (vrs) TARGET SPECIES CODE(S) 45 46 **47** 0 48 49 50 51 52 No hrs 53 54 Yes 1 OTHER GEAR 2 CODE # ONBRD CAPT EXP (yrs) TARGET SPECIES USED? # SOAK CODE(S) hrs 45 46 No **47** 0 48 49 50 51 52 53 54 Yes 1 hrs OTHER GEAR 3 CODE USED? # ONBRD TARGET SPECIES 53 54 # SOAK CAPT EXP (yrs) CODE(S) 45 46 **47** 0 48 49 50 51 52 No hrs Yes # UNOBSERVED HAULS PRIMARY SPECIES LANDED PHOTOS? 58 # TRIP HAULS SCALLOP TRIPS ONLY 55 56 57 SOAKED? 59 # OF BAGS AVERAGE WGT/BAG Ν 60 61 No 0_ COMMENTS lb Yes 1 DATE ARRIVED AT DOCK mm/dd/yy TIME ARRIVED 24 h 62 63 : Only fill in for first trip of deployment DATE DISEMBARKED mm/dd/vv TIME DISEMBARKEE 24 h 64 65 : Only fill in for last trip of deployment Fields that require a comment

RY COMMENT LOG
X Y X N Y
J/yy TIME SAILED 24 h
15:30 16
J/yy TIME LANDED 24 h
1 6 23 : 02
STEAM TIME (calc)
12 <u>3</u> hrs
BAIT
Unknown
<u>0</u> .00 \$ 00
TIME LOST *
SON AMOUNT
7 12.8 hrs
23_5_hrs
hrs
hrs
- hrs
 III3
'S ONLY
AVERAGE WGT/BAG
48 lb
L
TIME ARRIVED 24 h
6 14 : 45
TIME DISEMBARKEE 24 h
6 23 : 3 0

TRANSIT TRIP LOG	
NMFS NEFSC FISHERIES (DBSERVER PROGRAM
OBTRP OBTRG OBTRS	05/01/16

TRANSIT TRIP LOG											DATE RECEIVE	=D		
NMFS NEFSC FISH		BSERV	ER PR	OGRAM						FICE	EDITED BY			
OBTRP OBTRG C	BTRS	05/01/16								-P-				
			E SECT	OR ID FL 3	еет 4	VENDOR ID 5		AKES 6 B M	AGE STRUCT	URES W Froz.			9] Y	COMMENT LOG
VESSEL NAME # 1 11	VES	SEL NUMBE	R # 1 12		VES	SSEL PERMIT # 1 13		PORT SAILED (CIT 14	Y, STATE) CO 15	DE DA	TE SAILED	mm/dd/yy 6		TIME SAILED 24 h
VESSEL NAME # 2	VES	SEL NUMBE	R # 2		VES	SSEL PERMIT # 2		PORT LANDED (CI [*] 21	TY, STATE) CO 22	DE DA 2	TE LANDED 2	3 mm/dd/yy		TIME LANDED 24 h
HOME PORT (CITY,STATE)	CODE EXF	P. TRIP DUR	CREV (INCLUI	V SIZE DE CAPT)	DE/	ALER'S NAME			VTR SERIAL N	NUMBER				STEAM TIME (calc)
25 2	26	day(s	;)	28		NO CATCH				30				hrs
TRIP TYPE									TRIP COSTS					
Single Gear ICE USED	FUE	EL USED	DAMA Unkno	AGE/LOSS *	SUF Unk	PPLIES * known X	FOOD Unknown <u>X</u>	ICE (PER TON Unknown X) FUEL (PER G/ Unknown	AL) W. X Ur	ATER Iknown <u>X</u>	OIL Unknown	x	BAIT Unknown X
Multiple Gear 2	tn	gal	\$. 0) \$	00	\$. 00 \$	\$		\$ 00	\$. 00	\$00
			_	GEA	RINFO	ORMATION (IN US	E & STOWED)					_	TIME L	.OST *
PRIMARY GEAR 43			No	USED? 0 _	<u>X</u>	# ONBRD 48	# SOAK 49	CAPT EXP (yrs) 50	TARGET SPECIES 51		CODE(S) 52	REASON	1	AMOUNT
			Yes	1_		# ONDED	# 00 01/				0005(0)			hrs
45	46	JE	No	05ED? 0_	_X	# ONBRD 48	# SOAK 49	50	51		52			hrs
OTHER GEAR 2 45	COI 46	DE	No	USED?	_X	# ONBRD 48	# SOAK 49	CAPT EXP (yrs) 50	TARGET SPECIES 51		CODE(S) 52			hrs
	<u> </u>	JE	Yes			# ONBRD	# 501K							nrs
45	46		No Yes	03LD? 0_ 1	<u>X</u>	48	# 30AK 49	50	51		52			hrs
# TRIP HAULS #	UNOBSER\	/ED HAULS	PRIM	ARY SPECIE	S LAN	NDED			PHOTOS? 58	3	SC	ALLOP TRIPS O	NLY	
0	0	1		NO	NE				N Y	SOAKED	9	# OF BAGS	AV	ERAGE WGT/BAG
COMMENTS										Yes 1			-	Ib
								Only fill in for firs	t trip of deploymen	DATE ARF	RIVED AT DOCK 62 /	mm/dd/yy /	TIME 63	ARRIVED 24 h
* Fields that require a comment								Only fill in for las	t trip of deploymen	DATE DIS t	EMBARKED 64 /	mm/dd/yy /	TIME 65	DISEMBARKEE 24 h

TRANSIT TRIP LOG								/ED	
NMFS FISHERIES O	BSERVER PROG	RAM							
OBTRP OBTRG C	DBTRS 05/01/16							T ID	
OBS/TRIP ID	PROGRAM CODE	SECTOR ID FLE	EET VENDOR ID	INCIDENTAL T	AKES	AGE STRUCT	URES WHOLE FISH	FIELD DIARY	COMMENT LOG
A 9 9 1 0 1 T	000		046 02	XN	В М	T Env.	Froz. X N	Y N X	Y X N Y
VESSEL NAME # 1	VESSEL NUMBER	# 1	VESSEL PERMIT # 7	1	PORT SAILED (CIT	Y, STATE) CO	DDE DATE SAILED	mm/dd/yy	TIME SAILED 24 h
Comorant	6632	42	1418	59	Fairhaven,	МА	10/	13/1	6 14 : 45
VESSEL NAME # 2	VESSEL NUMBER	# 2	VESSEL PERMIT # 2	2	PORT LANDED (CI	TY, STATE) CO	DDE DATE LANDED	mm/dd/yy	TIME LANDED 24 h
					New Bedfo	rd, MA	10/	1 3 / 1 6	15 : 02
HOME PORT (CITY,STATE)	CODE EXP. TRIP DUR	CREW SIZE	DEALER'S NAME			VTR SERIAL	NUMBER		STEAM TIME (calc)
Cape May, NJ	dav(s)	6	NO CATCH						hrs
TRIP TYPE						TRIP COSTS			
Single Gear 1 ICE USED	FUEL USED	DAMAGE/LOSS *	SUPPLIES *	FOOD	ICE (PER TON	I) FUEL (PER G	AL) WATER	OIL	BAIT
<u> </u>		Unknown X	Unknown X	Unknown X	Unknown X	Unknown	X Unknown X	Unknown X	Unknown X
Multiple Gear 2	tn gal	\$00	\$00	\$.00 \$	\$	\$00) \$0	0 \$00
		GEAR	INFORMATION (IN U	SE & STOWED)	-	-		זוד	ME LOST *
PRIMARY GEAR	CODE	USED?	# ONBRD	# SOAK	CAPT EXP (yrs)	TARGET SPECIES	G CODE(S)	REASON	AMOUNT
Sea Scallop Dredge	1 3 2	NO 0_ Yes 1_	2	0	20	Sea Scallo	ps		hrs
OTHER GEAR 1	CODE	USED?	# ONBRD	# SOAK	CAPT EXP (yrs)	TARGET SPECIES	CODE(S)	_	
		No 0_	<u>X</u>				_		hrs
Handline	020	Yes 1_	1	0				_	
OTHER GEAR 2	CODE	USED?	# ONBRD	# SOAK	CAPT EXP (yrs)	TARGET SPECIES	G CODE(S)		hrs
		NO 0_	<u>×</u>						bre
OTHER GEAR 3	CODE	USED?	# ONBRD	# SOAK	CAPT EXP (vrs)	TARGET SPECIES	CODE(S)		• IIIS
	0002	No 0	X		0/11/2/11/()/0/				hrs
		Yes 1_							
# TRIP HAULS #	UNOBSERVED HAULS	PRIMARY SPECIES	S LANDED			PHOTOS?	S	CALLOP TRIPS ONL	Y
0	0	NOM	NE			X N Y	, SOAKED?	# OF BAGS	AVERAGE WGT/BAG
COMMENTS	v					FISH ONBOARD?	No 0 <u>9</u>		<i>lb</i>
							Yes 1		
Transit to pick up ice before fishing									
C	aptain did not fill out	VTR for this tri	D						
							DATE ARRIVED AT DOCH	< mm/dd/yy T	IME ARRIVED 24 h
					Only fill in for firs	st trip of deploymer	nt 10 / 1	3 / 1 6	13 : 57
					e, in ior inc		DATE DISEMBARKED	mm/dd/yy T	IME DISEMBARKEE 24 h
* Fields that require a community					Only fill in for los	t trip of doploymer	/	<u> </u>	:
rields that require a comment					Only nil in for las	st uip of deployment	n /	1	

VESSEL AND TRIP	INFORMATION LOG		щ	DATE RECE	EIVED	/	/
NMFS FISHERIES AT-	SEA MONITORING PR	EDITED BY					
ASMTRP ASMTRG	05/01/16		0- <u>v</u>	DEPLOYME	NT ID		
OBS/TRIP ID 1 1:	PROGRA	M CODE	SECTOR	ID CODE	VENDOR	ID CODE	
		2		3		5	
INCIDENTAL TAKES	6		PHOTOS		58	FIELD DIARY	9
		\Box_{T}			VES		VES
					VESSEL		FR
11			12			13	
PORT SAILED (CITY	(, STATE)	DATE SA	LED (mm/	(dd/yy)	TIME SAI	LED (24 hr)	
14	, ,		,	16		(,	17
		/		1		:	
PORT LANDED (CIT	Y, STATE)	DATE LAN	NDED (mm	n/dd/yy) 23	TIME LAN	IDED (24 hr)	
21		$ \square \rangle$:	24
DEALER'S NAME		VTR SER	AL #		eVTR TRI	PID	
29			30			30a	
		TRIP	27200				
ICE LISED (ton)	FUEL USED (gal)		00010		\$	FOOD	
33	34		35		36	37	
		\$. 00	\$. 00	\$	00
□ · □ □ UNKNOWN		Π		Г		т <u>п</u> илки	OWN
ICE/TON	FUEL/GAL	WATER		OIL		BAIT	_
38	39		40		41	42	
\$	\$ ·	\$. 00	\$. 00	\$	00
			UNKNOWN		UNKNOWN		OWN
		GEAR IN	FORMATIO	ON	-		
PRIMARY GEAR	CODE	TARGET	SPECIES	1	TARGET	SPECIES 2	
43	44		51			51a	
OTHER GEAR 1	CODE	TARGET	SPECIES	1	TARGET	SPECIES 2	
45	46						
OTHER GEAR 2	CODE	TARGET	SPECIES	1	TARGET	SPECIES 2	
COMMENTS		DATE AR	RIVED (mr	m/dd/vv)	TIME ARF	RIVED AT DOC	K (24 hr)
			(62	:	63	,
Only fill in	for first trip of deployment	1		1	-		
		DATE DIS	EMBARK	ED	TIME DIS	EMBARKED (2	24 hr)
				64	:	65	
Only fill in	for last trip of deployment	1		1			

VESSEL AND TRIP	INFORMATION LOG		н	DATE RECE	EIVED	/ /	
NMFS FISHERIES AT-	SEA MONITORING PR	OGRAM	OFFIC	EDITED BY			
ASMTRP ASMTRG	05/01/16		<u>z</u>	DEPLOYME	NT ID		
OBS/TRIP ID	PROGRA	M CODE	SECTOR		VENDOR	ID CODE	
A 9 9 0 0 2	2 3	1	0 1	6		09	
INCIDENTAL TAKES	3		PHOTOS			FIELD DIARY	
X N	ВШМ	Пт		X	YES	X NO YES	
VESSEL NAME		VESSEL N	IUMBER		VESSEL	PERMIT NUMBER	
Fishing Boa	at		1234567			123456	
PORT SAILED (CITY	′, STATE)	DATE SAI	LED (mm/	/dd/yy)	TIME SAI	LED (24 hr)	
Point Judith,	, RI	10 /	06	/ ¹⁶		03 : 43	
PORT LANDED (CIT	Y, STATE)	DATE LAN	IDED (mm	n/dd/yy)	TIME LAN	NDED (24 hr)	
Point Judith,	, RI	10,	08	/ 16		23 : 49	
DEALER'S NAME		VTR SERI	AL #		eVTR TR	IPID	
South Pier Sea	afood		12345678	5			
		TRIP	COSTS				
ICE USED (ton)	FUEL USED (gal)	DAMAGE		SUPPLIE	S	FOOD	
<u>4</u> . <u>7</u> <u>5</u>	950	\$200	. 00	\$75	. 00	\$00	
			UNKNOWN		UNKNOWN		
ICE/TON	FUEL/GAL	WATER		OIL		BAIT	
\$ <u>75</u> . <u>0</u> 0	\$_ <u>3</u> . <u>4</u> 3	\$10	00	\$ 90	00	\$00	
					UNKNOWN		
	CODE	GEAR INF		<u>UN</u>	TADGET		
Trawl. Bottom. Otte	r. Fish	TANGLI			Winter Flounder		
,, <u>,</u>	0 5 0						
OTHER GEAR 1	CODE	TARGET S	SPECIES	1	TARGET	SPECIES 2	
OTHER GEAR 2	CODE	TARGET S	SPECIES	1	TARGET	SPECIES 2	
COMMENTS		DATE AR	RIVED (mi	m/dd/yy)	TIME ARE	RIVED AT DOCK (24 hr)	
Only fill in	for first trip of deployment	10,	06	,16		03 : 15	
		, DATE DIS	EMBARKI	, ED	TIME DIS	EMBARKED (24 hr)	
Only fill in	for last trip of deployment	10 /	09	/ ¹⁶		00 : 15	
Damages = parted v	vire						
Supplies = gloves, k	knives		Inc				
Other dealers = Fish	ny Fish Market and I	Doc's Fish	inc.				

TRANSIT TRIP LOG		щ	DATE RECE	EIVED	/	/
NMFS FISHERIES AT-SEA MONITORING P	ROGRAM	DEFIC	EDITED BY			
ASMTRP ASMTRG 05/01/16		U-NI	DEPLOYME	INT ID		
OBS/TRIP ID 1 1a PROGRA	M CODE	SECTOR		VENDOR	ID CODE	
	2		3		5	
INCIDENTAL TAKES 6		PHOTOS		58	FIELD DIARY	9
	Пт			YES		YES
VESSEL NAME	VESSEL N	NUMBER		VESSEL I	PERMIT NUMB	ER
11		12			13	
PORT SAILED (CITY, STATE)	DATE SAI	LED (mm/	dd/yy)	TIME SAI	LED (24 hr)	
14	1		16 /		:	17
PORT LANDED (CITY, STATE)	DATE LAN	NDED (mm	n/dd/yy) 23	TIME LAN	IDED (24 hr)	
21			,		:	24
DEALER'S NAME	VTR SERI	AL #		eVTR TRI	PID	
NO CATCH		30			30a	
	TRIP	COSTS				
ICE USED (ton) FUEL USED (gal)	DAMAGE		SUPPLIE	S	FOOD	
·	\$	00	\$	00	\$	00
UNKNOWN 🛛 UNKNOWN	X	UNKNOWN	X	UNKNOWN		IOWN
ICE/TON FUEL/GAL	WATER		OIL		BAIT	
\$\$	\$	00	\$	00	\$	00
	X	UNKNOWN	X	UNKNOWN		IOWN
			ON .	TADOFT		
	TARGET	SPECIES	1	TARGET	SPECIES 2	
	•	21			518	
OTHER GEAR 1 CODE	TARGET	SPECIES [·]	1	TARGET	SPECIES 2	
45 46	i					
OTHER GEAR 2 CODE	TARGET	SPECIES [·]	1	TARGET	SPECIES 2	
COMMENTS	DATE ARE	RIVED (mr	m/dd/yy)	TIME ARF	RIVED AT DOC	K (24 hr)
Only fill in for first trip of deploymen	+ /		62	:	63	
	DATE DIS	EMBARKE	, ED	TIME DIS	EMBARKED (2	24 hr)
	_		64	:	65	,
Only fill in for last trip of deploymen	t /		/			
					FISH ONBOA	RD?
						66 VES
						120

TRANSIT TRIP LOG			ж	DATE RECE	EIVED	/ /	
NMFS FISHERIES AT-	SEA MONITORING PR	OGRAM	DFFIC	EDITED BY			
ASMTRP ASMTRG	05/01/16		NI NI	DEPLOYME	NT ID		
OBS/TRIP ID	PROGRA	M CODE	SECTOR		VENDOR	ID CODE	
A 9 9 0 0 2	23	1	0 1	6		09	
INCIDENTAL TAKES	5		PHOTOS			FIELD DIARY	
X N	ВМ	Пт		X	YES	X _{NO} YES	
VESSEL NAME		VESSEL	NUMBER		VESSEL I	PERMIT NUMBER	
Fishing Bo	at		1234567			123456	
PORT SAILED (CITY	′, STATE)	DATE SA	LED (mm/	/dd/yy)	TIME SAI	LED (24 hr)	
Point Judith	, RI	10 /	06	/ ¹⁶		03 : 43	
PORT LANDED (CIT	Y, STATE)	DATE LA	NDED (mm	n/dd/yy)	TIME LAN	IDED (24 hr)	
Point Judith	, RI	10,	08	/ 16		23 : 49	
DEALER'S NAME		VTR SER	IAL #		eVTR TRI	PID	
	u		12345678	;			
	11	TRIP	COSTS				
ICE USED (ton)	FUEL USED (gal)	DAMAGE	00010	SUPPLIE	S	FOOD	
<u>4</u> . <u>7</u> <u>5</u>	<u> </u>	\$200	00	\$75	00	\$300 00	
		X	UNKNOWN	X	UNKNOWN		
ICE/TON	FUEL/GAL	WATER		OIL		BAIT	
\$ <u>75</u> . <u>0</u> <u>0</u>	\$ <u>3</u> . <u>4</u> 3	\$10	00	\$90	00	\$000	
		X	UNKNOWN	X X	UNKNOWN		
	0005	GEAR IN					
PRIMARY GEAR		TARGET	SPECIES Haddaak	1	TARGET SPECIES 2		
Trawi, Bollom, Olle	0 5 0		пациоск		Winter Flounder		
OTHER GEAR 1	CODE	TARGET	SPECIES	1	TARGET	SPECIES 2	
OTHER GEAR 2	CODE	TARGET	SPECIES	1	TARGET	SPECIES 2	
COMMENTS		DATE AR	RIVED (mi	m/dd/yy)	TIME ARE	RIVED AT DOCK (24 hr)	
Only fill in	for first trip of deployment	¹⁰ /	06	, ¹⁶		03 : 15	
		DATE DIS	EMBARK	ED	TIME DIS	EMBARKED (24 hr)	
Only fill in	for last trip of deployment	10/	09	/ ¹⁶		00 : 15	
						FISH ONBOARD?	
Damages = parted v Supplies = gloves, k	vire mives					X _{NO} YES	
Other dealers = Fish	ny Fish Market and I	Doc's Fish	Inc.				

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 11/30/2015.

Policy for Data Requests of NMFS Observer-Obtained Information

- 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.

		OMB Control No: 0648-0593 Expires on: 10/31/2018
NMFS FISHERII TRIP DAT	ES OBSERVER PROGRAM FA RELEASE FORM	-
Request Date///		
Observer Trip ID #		
Vessel Name		
USCG Doc #		
Date Landed//		
<u>PRINT</u> Name	Signature	
PRINT Mailing Address:		
Copies Released By:	Date Edited? Yes	No
(For NMFS Office Use)		
TEAR AT PERFORATION AND RETAIN BEL	OW SECTION FOR YOUR REC	ORDS
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 <u>Questions or Comments:</u> Gina Shield 508-495-2139

OMB Control No: 0648-0593 Expires on: 10/31/2018

	NMFS FISHERIES OBS TRIP DATA REL	ERVER PROGRAM EASE FORM	
Request Date	05/01/16		
Observer Trip ID) # <i>A99012L</i>		
Vessel Name	JO JO		
USCG Doc #	1234567		
Date Landed	05/01/16		
	_JOHN SMITH	John Smith	
<u>PRINT</u> Name		Signature	
PRINT Mailing	Address:		
PO BC	DX 1234		
GLOU	CESTER, MA 01930		
Copies Released H	By:Date _	Edited? YesNo	
(For NMFS Off	ice Use)		
TEAR AT PERF	ORATION AND RETAIN BELOW SEC	TION FOR YOUR RECORDS	
The data you rec	eive may be preliminary and not yet comp	letely reviewed.	
Observer Trip ID	0# <i>A99012L</i>	_	
Date Requested	05/01/16		
	Mail Request To:	Questions or Comments:	
	Chief, Fisheries Sampling Branch	Gina Shield	
	National Marine Fisheries Service	508-495-2139	
	Northeast Fisheries Science Center		
	166 Water Street		
	Woods Hole, MA 02543-1097		

Common Gear Log Instructions

This section contains fields that are common to all Gear Logs. Questions that pertain to each fishery are detailed in their respective sections. Each log contains detailed questions about the gear fished. Assign a new gear number for each uniquely configured gear **hauled** during a trip. These unique configurations are based on the variables collected for each gear type. Any changes in these fields will require a new GEAR NUMBER. Number each gear configuration sequentially.

If the gear is set out and hauled more than once during a trip, do not assign it a new gear number. Rather, record on the <u>Haul Log</u> which gear number is being hauled. In addition, record any other information necessary to understand the manner in which the gear was set/hauled in the comments section.

For instructions on completing Header Fields **A**, **B**, and **C** and GEAR CODE (**D**) refer to the <u>Common Haul Log Data</u> section.

Comments

Record any additional information about each gear, including descriptions of any "Combination" or "Other" codes. Include any calculations used to answer any questions. If more room is needed, use the back of the log, making sure to write "See Back" on the front of the log. Reference each comment with its corresponding field name.

Common Haul Log Data

This section contains fields that are common to all Haul Logs. Questions that pertain to each fishery are detailed in their respective sections. Each log contains detailed questions about the setting and hauling of the gear, as well as the haul's catch. Complete a new log after each hauling of gear. If you feel that you cannot go on deck for weather-related safety reasons, record as much information on this log as possible (e.g., header information, depths, times, positions, kept catch estimates).

The species summary section should be used to record catches of all species (some exceptions listed below), debris, and shells. If any pelagic species (e.g. swordfish, billfish, large tuna species, sharks, etc.), sturgeons, rays, or tagged fish are caught on this haul, complete an <u>Individual Animal Log</u> to provide information on each animal. All marine mammals, sea turtles, and seabirds caught on this haul must be recorded on a <u>Marine Mammal, Sea Turtle, and Seabird Incidental Take Log</u>. See: Appendix T – Species Codes for a list of species and the log(s) on which to record them.

The <u>Haul Log</u> will serve as a cover sheet for any <u>Individual Animal Log(s)</u>, <u>Length Frequency Log(s)</u>, <u>Catch Composition</u> <u>Log(s)</u>, <u>Discard Log(s)</u>, and <u>Crustacean Log(s)</u>.

If there are insufficient lines on one form for all species caught on this haul, continue listing species on an additional <u>Haul</u> <u>Log</u>, making sure to complete all of the Header Information (A-C), Gear Code (D), Gear Number (E), and Haul Number (F). Any fields labeled with a letter in the following sections refer to this list.

Comments

Record any additional information regarding this haul (e.g., unusual species caught, uncommon catches, gear damage, reason to expect the gear was not fishing properly). If more room is needed, use the back of this log, making sure to write "See Back" on the front of the log. Reference each comment with its corresponding field name.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
A*	Observer/Trip Identifier	3-character Observer Identifier	6 characters	Cannot be unknown.
		combined with 3-digit Trip Number		
		(sequential by calendar year).		
В*	Date Landed	When the vessel arrives at the dock	MM/YY	Cannot be unknown.
C*	Page Number	See Appendix B – Page Numbering	Up to 3 digits	Cannot be unknown.
D*	Gear Code	Gear fished on this haul	3-digit code	Cannot be unknown
5		See Appendix I – Gear Codes	5 digit coue	cannot be anknown.
E*	Gear Number	Unique gear identifier	2-digit code	Cannot be unknown.
F*	Haul Number	Sequential by order hauled	3-digit code	Cannot be unknown.
			0	
G*	Haul Observed?	Yes/No.	Check one	Cannot be unknown.
		Observed: record all catch (kept &		
		discarded).		
		Unobserved: only record discard		
		information for IALs and Incidental		
		Takes.		
		Hauls with a <u>Discard Log</u> : mark		
		unobserved and record all catch.		
Н	On-Effort?	Yes/No.	Check one	Cannot be unknown.
		Intentionally present to witness		
		haulback, regardless of haul observed.		

Haul Information

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
I	Catch?	Yes/No. Any living or non-living items, regardless of status or disposition.	Check one	"9".
J*	Incidental Take?	Yes/No. If Yes, complete <u>Marine Mammal, Sea</u> <u>Turtle, and Seabird Incidental Take Log.</u>	Check one	Cannot be unknown.
К*	Weather	See Appendix K – Weather Codes. Beginning of haul.	2-digit code	"00".
L	Wind Speed	Estimated by observer and/or captain. Beginning of haul. Record "0" if no wind.	Whole knots	Dash.
М	Wind Direction	Estimated by observer and/or captain. Beginning of haul.	Compass degrees	Dash if unknown or no wind.
N*	Wave Height	Estimated by observer and/or captain. Beginning of haul; not a range. Record "0" if less than 6 inches.	Whole feet	Dash.
0	Bottom Depth	Obtained from depth sounder. Beginning of haul.	Whole fathoms	Dash.
Ρ*	Gear Condition	See Appendix L – Gear Condition Codes.	3-digit code	"000".
Q*	Set/Haul Dates Begin Fish/Gear Onboard Dates	Dates collected specific to each fishery. See Appendix C – Set/Haul Time Definitions.	MM/DD/YY	Cannot be unknown.
R*	Set/Haul Times Begin Fish/Gear Onboard Times	Times collected specific to each fishery. See Appendix C – Set/Haul Time Definitions.	HH:MM (24hr)	Dash and record estimated time ³ in comments.
S*	Set/Haul Locations	See Appendix C – Set/Haul Time Definitions. See Appendix D – Conversion Tables. Can be obtained from captain's logbook.	Latitude/Longi tude, to the nearest tenth of a minute OR LORAN station bearings	3-digit statistical area. See Appendix A – Northeast Statistical Areas.
S2*	Statistical Area	ASM only, if coordinates are not available.	3-digit code	Leave blank if coordinates entered.
Т	Water Temperature	Collected at the end of the haul (set begin for purse seine). Use a thermometer provided by FSB or your observer provider to obtain this temperature. If an incidental take occurs in this haul, Water Temperature must be recorded. Longline: also taken at set begin, set end, and haul begin.	Degrees Fahrenheit	Dash.

 $^{^{3}}$ With the exception of Off-Watch Logs, times cannot come from the captain. If you cannot obtain the time yourself, dash the time field and record the captain's estimated time in the comments. Dates provided by the captain should be recorded in the date field, with a comment that it came from the captain.

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
U*	Target Species	Obtain from captain before gear is hauled. Be as specific as possible. See Appendix T – Species Codes. Cannot target dressed species (parts).	NEFOP and IFS: up to 5 unique species/group names per box ASM: record secondary target species under U2	"0000" if None (e.g., washing the net).
V	Target Species Code	Filled in by FSB staff for data entry. Observers: leave blank.	4-digit code	Cannot be unknown.
W*	Sample Weight Multiplier	Calculated on the <u>Catch Estimation</u> <u>Worksheet.</u>	Unitless, to the nearest hundredth	Leave blank if not subsampling.

Catch Information

Record a new line for each unique species, disposition, and weight type (dressed vs. round).

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
A'*	Species Name	See Appendix T – Species Codes.	N/A	Cannot be unknown.
B'	Species Code	Filled in by FSB staff for data entry.	4-digit code	Cannot be unknown.
		Observers: leave blank.		
C'*	Subsample Weight	Actual weight of species/disposition in	Pounds, to the	Leave blank if not
		subsample.	nearest tenth	subsampling.
D'*	Pounds	Observer actual weight preferred.	Pounds	Cannot be unknown.
		Otherwise observer or captain's	Actual or <1lb:	
		estimate, indicated by Estimation	to the nearest	
		Method.	tenth	
			Estimated	
			>1lb: whole	
E'*	Fish Disposition	Obtain reason from captain.	3-digit code	"900" and comment.
		See Appendix M – Fish Disposition		
		Codes.		
F'*	Dressed or Round	D/R.	D = Dressed	"U".
		Determined by the observer.	R = Round	
		Status of this species/disposition when	U = Unknown	
		it was weighed.		
		Dressed "parts" include fins, wings,		
		tails, livers, and chunks.		
G'*	Estimation Method	Determined by the observer.	2-digit code	Cannot be unknown.
		Method used to estimate this		
		species/disposition.		
		See Appendix N – Estimation Method		
		Codes.		

"GENERI	C" HAUL LO	G									OBS/ TR	IP ID		Α		
NMFS FIS	SHERIES OB	SERVER PRO	GRAM								DATE LA	ND (mm/y	y)	В	/	
OBHAU	OBSPP 05/	01/16									PAGE #			C	OF	
GEAR CODE	D GEAR # E	HAUL # F	HAUL OBS	S? ON	N-EFFORT?	CATCH	1?	INC TAKE?	WEATHER CODE	WIN	D	WAVE HE	IGHT D	EPTH,	GEAR CO	OND CODE
			NO 0	NC	0 0	NO 0		NO 0		SPEED	DIRECTION		н	AUL BEGIN		
			YES 1	G YE	S1 H	YES 1	Ι	YES 1 J	к	L	М о	N		0		Р
										kn			ft	fm		
SET INFO	DATE AN	ND TIME			LATITUDE / L	ONGITUDE	DD MM.	M) - LORAN	(XXXXX)	WATER TEMP	TARGET SP	ECIES			CODE(S))
	mm/dd/yy	24 hours	Station 1	Latitu	de / Bearing		Station 2	Lon	gitude / Bearing							
S BEGIN	Q / /	R	9960 -		s		9960 -			о т	U				v	
T END			9960 -				9960 -				F					
	/ /	:														
A BEGIN	/ /		9960 -				9960 -									
U END			9960 -				9960 -									
	1 1	:														
COMMENTS																
														SAMPLE W	EIGHT MU	JLTIPLIER
															w	
						1	1	r							<u>·</u>	
	SPEC	CIES		CUID			WE	IGHT		SPECIES		CLID			WE	IGHT
				SAMPLE		DISP		METHOD				SAMPLE		DISP		METHOD
	NAME		CODE	WEIGHT	POUNDS	CODE	D/R	CODE		NAME	CODE	WEIGHT	POUND	S CODE	D/R	CODE
	Α'		В'	C'	D'	Ε'	F'	G'								
1				·•					11			•				
2									12							
3				·					13			·				
4									14							
5									15			·				
6									16							
7				·				┼──┤	17			·				
8									18							
9				•					19							
10									20							

"GENERIC"	HAUL I	_OG					ĺ.	OBS/TRIP ID			۸		
NMFS FISH	ERIES A	T-SEA		RING P	ROG	RAM	DATE LANDED mm/yy				B /		
ASMHAU AS	SMSPP	05/01/16					-	PAGE #			C	of	
GEAR CODE	GEAR N	UMBER	HAUL NUN	I BER			HAUL OB	SERVED?		INC TAKE?	>		J
D		E			F		YES 🗌	NO	G	YES 🗌		NO	
WEATHER CO		WAVE HE		GEAR		CODE	TARGET	SPECIES 1		TARGET S	PECIES	2	
K	52	N		02/	P	0002		U			U2	-	
			ft		-			-					
НАШ	DATE			TIME			LATITU	DE/LONGI	TUDE (DD	MM.M)			
INFO	mm/dd/y	y		24 hour	s		LATITUDE	Ξ	LONGITU	JDE	or (ST	rat af	REA)*
BEGIN HAUL	Q	1 1		R	:			s				S2	
END HAUL		1 1			:								
COMMENTS	I						1	* Enter only if	latitude/longit	ude coordinat	es are no	ot availa	able
									SAMPLE	WEIGHT M W		ER	
SPECIES NAM	E	SAMP. WEIGHT	POUNDS	DISP CODE	D/R	EST. METH.	SPECIES	NAME	SAMP. WEIGHT	POUNDS	DISP CODE	D/R	EST. METH.
A'		C'	D'	Ε'	F'	G'							
1		·					11		.				
2		.					12						
3							13		•				
4							14		•				
5		•					15						
6							16						
7							17						
							19						
°							10		•				
a A		•					19						
10							20						

Fishermen's Comment Log

The purpose of this log is to provide fishermen an opportunity to document and record any significant information as it relates to an observed trip. This log will become part of the trip record. This log is used for all programs.

Observers are required to present this log to the captain at the beginning of every trip. This log is completely voluntary and should not be presented as an additional requirement. This log is not meant to be used for past trips; it should only pertain to the current trip.

Captains may either mail in the log separately or give to the observer to be included as part of the trip file. If the captain would prefer sending the log in at a later time, pre-fill out items A, B and C for the captain. If the log is returned to the observer for submittal with the trip, it should be incited on the <u>Vessel and Trip Information Log</u> by checking the "Y" box next to the Fishermen's Comment Log and placed at the end of the trip. Observers are also required to ask the captain if he would like a copy of the log.

If the back of the log is utilized, the standard trip header information should be filled out on both sides of the log.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Event Date	Filled out by observer or captain.	MM/DD/YY	Cannot be unknown.
2	Vessel Name	Filled out by observer or captain.	N/A	Cannot be unknown.
3	Vessel or Hull Number	Either the US Coast Guard	Up to 8	Cannot be unknown.
		Documentation Number or the state	characters	
		registration number.		
4	Comments Continued on	Yes/No.	Check one	Cannot be unknown.
	Back?			
5	Comments	Filled out by captain.	Comment field	Cannot be unknown.
		Can relate to gear particulars, unusual		
		species caught, abnormal levels of		
		bycatch, extrapolated weights,		
		reasons gear was not fishing properly,		
		etc.		
		Continue on back if needed.		

		OBS/ TRIP ID	Α
FISHERMEN'S COMMENT LOG		DATE LAND (mm/vv)	B /
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05/01/16	EVENT DATE (mm/dd/yy)	1 / /	
Record notes or details on observed tows, such as species composition, estima	ted or extrapolated weights, gear or fishing conditions that may be	out of the ordinary. If notes pertain t	o a specific tow, or
VESSEL NAME	HULL NUMBER	COMMENTS CONTINUED ON BACK?	
		NO 0	
2	3	YES 1 4	
COMMENTS			
5			
5			
APERWORK REDUCTION ACT STATEMENT: The information provided on this form will	be used by the National Marine Fisheries Service (NMFS) to improve observ	er training under section 403(b) of the Mag	nuson-Stevens Act (16 U.S.C. 180'

PAPERWORK REDUCTION ACT STATEMENT: The information provided on this form will be used by the National Marine Fisheries Service (NMPS) 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 of living marine resources and that are required under the Magnuson-Stevens Fishery Conservation and Management Act (16 U.S.C. 1801, (MSA), the Endangered Species Act (ESA), the Marine Marmal Protection Act (MMPA), the National Environmental Policy Act (NEPA), the Regulatory Flexibility Act (RFA), Executive Order 12866 (EO 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 Statistos. 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, nor shall any person be subject to a penalty for failure to 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 10/31/2018.
		OBS/ TRIP ID	A99015-
FISHERMEN'S COMMENT LOG		DATE LAND (mm/yy)	11 / 16
NMFS FISHERIES OBSERVER PROGRAM 05/01/16		PAGE #	1 OF 1
		EVENT DATE (mm/dd/yy)	11 / 12 / 16
Record notes or details on observed tows, such as species times, please include that information below.	s composition, estimated or extrapolated weights, gear or fishing con	ditions that may be out of the ordinary. If notes pertain	to a specific tow, or
VESSEL NAME	HULL NUMBER	COMMENTS CONTINUED ON BACK?	
		NO 0 <u>X</u>	
Cormorant	663242	YES 1	
COMMENTS			
COMMENTS			
Caught 700lbs of river herring on haul #4. All other hauls in	icluded 100lbs or less and were primarily Atlantic herring. I believe this w	vas because of faulty gear.	

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 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 complexity and OMB Control Number. This is an approved information collection on one OMB Control No. 0648-0593 through 10/31/2018.

Gillnet Gear Characteristics Log

For NEFOP trips, if the vessel has two or more identical gears which are hauled separately, complete only one <u>Gillnet</u> <u>Gear Characteristics Log</u> and record the consecutively assigned numbers of all identical gears described in GEAR NUMBER(S) (#1).

For ASM trips, if the vessel has two or more identical gears which are hauled separately, complete a separate <u>Gillnet Gear</u> <u>Characteristics Log</u> for each individual gear.

This log should be used to describe all types of gillnet gear except Beach Seine or Beach Anchored Gillnet.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1*	Gear Number	Unique identifier for each gillnet	2-digit code	Cannot be unknown.
		string.		
		NEFOP: Can be a list of gear numbers		
		if all have identical characteristics.		
2*	Number of Nets	Individual net panels, total for the	Whole number	Cannot be unknown.
		string.		
3*	Net Length	Obtain from the captain.	Whole feet	Dash.
		Length of a single net panel, not		
		including spaces.		
		Average if variable.		
4*	Net Height	Obtain from the captain.	Whole feet	Dash.
		Do not calculate.		
		Height of an un-stretched net panel,		
		excluding tie downs.		
_		Average if variable.		
5	Mesh Count, Vertical	Obtain from captain or count.	Whole number	Dash.
		Average if variable.		
6	Hanging Ratio	Obtain from captain or measure ratio	Fraction	Dash.
		of floatline to stretched mesh.		
		Average if variable.		
7	Twine Size Number	Obtain from captain.	3-digit number	"000".
		See Appendix D – Conversion Tables.		//- !!
8	Twine Size – Actual or	Actual (measured) or Estimated	Check one	"0".
	Estimated?	(captain provided).		//- !!
9	Floatline Material	Obtain from captain.	Check one	"0".
		Describe "other" on line 9A.		
10	Leadline Weight	Obtain from captain.	Pounds, to the	Dash.
		Weighted average.	nearest tenth	"o"
11	Floats Used?	Visually confirm.	Check one	"9".
12	Distance Between Floats	Obtain from captain.	Whole feet.	Dash.
		Average.		Leave blank if Floats
1.0.1k				Used = "No".
13*	Tiedowns Used?	Visually confirm.	Check one	"9″.
		For ASM trips, only record Yes or No.		
		If not all nets use tiedowns, mark		
		"Yes" and comment on the number of		
4.4*	The design from the	nets using tiedowns.	F + + - + -	Deat
14**	Hedown Length	Obtain from captain.	reet, to the	Dasn.
		Average.	nearest tenth	Leave Diarik IT
14*	Tiedown Length	nets using tiedowns. Obtain from captain. Average.	Feet, to the nearest tenth	Dash. Leave blank if Tiedown Used = "No".

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
15	Spaces Between Nets Used?	Visually confirm. Spaces >= 2.5 feet between nets.	Check one	"9".
16	Number of Spaces Between Nets	Count or obtain from captain. Total.	Whole number	Dash. Leave blank if Spaces Used = "No".
17	Space Width	Measure or obtain from captain. Average.	Whole feet	Dash. Leave blank if Spaces Used = "No".
18	Droplines Used	Visually confirm.	Check one	"9".
19	Dropline Length	Obtain from captain. Float at surface to floatline.	Whole feet	Dash. Leave blank if Droplines Used = "No".
20	Additional Weights Used?	Visually confirm.	Check one	"9".
21	Weight of Additional Weights	Obtain from captain. Total weight; does not include leadline.	Whole pounds	Dash. Leave blank if Additional Weights Used = "No".
22	Anchors Used?	Visually confirm.	Check one	"9".
23	Number of Anchors	Count.	Whole number	Dash. Leave blank if Anchors Used = "No".
24	Anchor Weight	Read weight stamped on anchor or obtain from captain. Total weight (sum all anchors).	Whole pounds	Dash. Leave blank if Anchors Used = "No".
25	Anchor Weight – Actual or Estimated?	Actual (stamped) or Estimate (captain).	Check one	"0". Leave blank if Anchors Used = "No".
26	Anchor Type	Visually confirm. Describe "other" or "combination" on line 26A.	Check one	"0". Leave blank if Anchors Used = "No".
27	Securing Method	Visually confirm. If anchored net, can only be 2 (Ocean Bottom) or 3 (Vessel and Ocean Bottom). If drift net, can only be 1 (None) or 4 (Tied to Vessel Only).	Check one	"0".
28*	Active Marine Mammal Deterrent Devices (Pingers) Used?	Visually confirm. When gear was set.	Check one	"9".
29	Number of AMMDD (Pingers)	Count. Obtain from captain if set is not witnessed. When gear was set.	Whole number	Dash. Leave blank if AMMDD Used = "No".
30	AMMDD Frequency	Obtain from captain. Frequency used on majority of devices; if equal number, record highest frequency and comment.	Kilohertz	"000". Leave blank if AMMDD Used = "No".
31	AMMDD Brand(s)	Visually confirm. Describe "other" or "combination" on line 31A.	Check one	"00". Leave blank if AMMDD Used = "No".

Field #	Name	Collection Type/	Lipite/	
Field #	Name	Special Instructions	Format	Unknown values
32	Passive Marine Mammal Deterrent Devices Used?	Visually confirm. When gear was set.	Check one	"9".
33	Number of PMMDD	Count or obtain from captain if set is not witnessed. When gear was set.	Whole number	Dash. Leave blank if PMMDD Used = "No".
34*	Number of Nets at Each Mesh Size	Obtain from captain.	Whole number	If exact count/mesh size not available,
35*	Corresponding Mesh Size	Obtain from captain. Stretched length.	Inches, to the nearest hundredth	leave blank and fill out Mesh Size Range.
36*	Mesh Size – Actual or Estimated?	Actual (measured) or Estimated (captain).	Circle one	"0". Leave blank if filling out Mesh Size Range.
37*	Mesh Size Range	Obtain from captain. Minimum and maximum mesh sizes.	Inches, to the nearest hundredth	If exact count/mesh size is available, leave blank and fill out Number of Nets at Each Mesh Size.
38	Net Color	Visually confirm. "Multicolor" refers to a mix of colors within 1 net; "combination" refers to nets of various colors connected in a string.	Check one	"00".
39	Number of High Flyers	Count. Total (sum both sides).	Whole number	Dash.
40	Number of Buoys	Count. Total connected to the buoyline (sum both sides).	Whole number	Dash.
41	Surface Line Length	Obtain from captain. Average length between any high flyer(s) and/or buoy(s) on the same buoyline.	Whole feet	Dash if unknown or if no surface line used.
42	Surface Line Type Code	Obtain from captain.	Check one	"0".
43	Surface Line Diameter	Obtain from captain. Average.	Inches, in fractional form	Dash. Leave blank if no surface line used.
44	Surface System Mark?	Yes/No. Visually confirm.	Check one	"9".
45	Groundline Used?	Yes/No. Visually confirm.	Check one	"9".
46	Groundline Length	Obtain from captain. Total (sum both sides).	Whole feet	Dash. Leave blank if Groundline Used = "No".
47	Groundline Type Code	Obtain from captain	Check one	"0".
48	Groundline Diameter	Obtain from captain. Average.	Inches, in fractional form	Dash. Leave blank if Groundline Used = "No".
49	Number of Buoylines	Count. Does not include line from vessel to gear.	Whole number	Dash.

- :				
Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
50	Buoyline Length	Obtain from captain.	Whole feet	Dash.
		Average.		Leave blank if Number
				of Buoylines = 0.
51	Buoyline Type Code	Obtain from captain.	Check one	"0".
52	Buoyline Percent	Obtain from captain.	Whole percent	Dash.
	Sinking/Neutrally	Average.		Leave blank if Number
	Buoyant ⁴			of Buoylines = 0 or
53	Buoyline Percent	Obtain from captain.	Whole percent	Buoyline Type Code ≠
	Floating ⁴	Average.		"8".
54	Buoyline Diameter	Obtain from captain.	Inches, in	Dash.
		Average.	fractional form	Leave blank if Number
				of Buoylines = 0.
55	Buoyline Mark?	Yes/No.	Check one	"9".
	-	Visually confirm.		Leave blank if Number
		4" colored mark mid-way on buoyline.		of Buoylines = 0.
56	Weak Links Used on	Yes/No.	Check one	"9".
	Surface?	Visually confirm.		
57	Number of Surface	Obtain from captain.	Whole number	Dash.
	Weak Links	Total (sum both sides).		Leave blank if Surface
				Weak Links Used =
				"No".
58	Surface Weak Link Type	Visually confirm	Check one	"0".
	Code			Leave blank if Surface
				Weak Links Used =
				"No".
59	Weak Links Used on	Yes/No.	Check one	"9".
	String?	Visually confirm.		
60	Number of String Weak	Obtain from captain.	Whole number	Dash.
	Links	Total (all nets).		Leave blank if String
				Weak Links Used =
				"No".
61	String Weak Link Type	Visually confirm	Check one	"0".
	Code	, ,		Leave blank if String
				Weak Links Used =
				"No".

 $^{^4}$ #52 and #53 must add up to 100

GILLNET GEAR CHARACTERISTICS LOG		OBS/ TRIP ID	Α
NMFS FISHERIES OBSERVER PROGRAM		DATE LAND (mm/yy)	B /
OBGGG OBMSZ 05/01/16		PAGE #	C OF
GEAR CODE GEAR NUMBER(S)	NUMBER OF NETS	MESH SIZE(S)	NET COLOR 38
			Unknown 00
	2	# OF NETS MESH SIZE (inches) (circle one) Clear 01
AVERAGE NET: USED? NO YES	MEASUREMENTS	35	36 White 02
FLOATS 11 01	Dist Between 12ft	34	A / E Pink 03
	(all pate) Longth 14 ft		Black 04
	(all nets) Length 14 it	· · · · ·	
HEIGHT (and the SPACE (S)	(not all nets)		A / E Multi-color 07
	Number 16	·	
MESH COUNT	Widthft		A / E Orange 09
VERTICAL 5		OR	N, 2 Orange 00
	Length 19 ft	MESH SIZE RANGE	Combination 98
		37	Other 99
RATIO 6 / ADDITIONAL WGTS 20 0 1	Weight 21 lbs		38A
		SURFACE SYSTEM	BUOYLINE
(circle one) ANCHOR(S) 22 0 1	Туре 26		# of Buoyline(s) 49
TWINE SIZE 7 A / E	Unknown 0	# of High Flyer(s) 39	· · · · ·
8 Number 23	Danforth-style 1		Length (avg) 50ft
	(circle one) Dead Weight 2	# of Buoy(s) 40	
Weight (total) 24	os A / E Combination 8		Type Code 51
FLOATLINE MATERIAL 9	25 Other 9	Surface Line	
SECURING METHOD(S)		Length (avg) 41f	Percent of Type 52 <u>% / %</u> 53
Unknown 0 None 27 1	26A		(sinking / floating)
Floating (foam core) 1 Ocean Bottom 2		Type Code 42	
Twisted Polypropylene 2 Vessel/Ocean Bottom 3			Diameter 54 / in
Other 9 Vessel Only 4		Diameter 43 / in	1
MM DETERRENT DEVICES 28			Mark? 55 NO 0
9A ACTIVE USED? 0 1	Brand(s) 31	Mark? 44 NO 0	YES 1
Number 29	Unknown 00	YES 1	WEAK LINKS NO YES
	Dukane 01		56
LEADLINE WEIGHT Frequency 30 kHz	Airmar 02		USED ON SURFACE? 0 1
	Fumunda 03	GROUNDLINE NO YES	
lbs/ net PASSIVE USED? 0 1	Future Oceans LED 04		Number (total) 57
32 Number 20		USED? 45 01	The Order 50
Number 33	Other 99		Type Code 58
COMMENTS	31A	Length (total) 46h	
		Type Code 47	USED UN STRING? 39 U 1
		Type Code 47	Number (total) 60
		Diameter 49 / H	
			. Type Code 61

GILLNET GE	AR CHARAC	TERISTICS LOC	;					OBS/ TRIP ID		A	99089C	
NMFS FISHE	RIES OBSEF		Λ					DATE LAND (m	m/yy)	1	0 / 16	
OBGGG OB	<u>MSZ 05/01/</u>	16						PAGE #		1	OF 2	
GEAR CODE	GEAR NUMB	ER(S)		NUMBER	R OF NETS		MESH SIZE(S)			٢	IET COLOR	
1 0 0										ι	Jnknown	00
	1, 2, 3	, 4		1	5		# OF NE	ETS MESH	SIZE (inches)	(circle one) C	Clear	01
AVERAGE NET:		USED?	NO YES	5	MEASUREMENTS			10		V	Vhite	02
		FLOATS	0	<u>X</u>	Dist Between	5 ft	15	12	. <u> </u>	A (E) F	Pink	03
LENGTH	300 ft									E	Black	04
		TIE DOWNS	0	X (all nets)	Length	4 . <u>0</u> ft			·	A/E C	Green	05
				2(not all nets	5)					E	Blue	06
HEIGHT (endline)	<u>8</u> .5 ft	SPACE(S)							·	A/E N	/lulti-color	07
		BETWEEN NETS	0	<u>X</u>	Number	14				F	Red	08
MESH COUNT					Width	<u> </u>			·	A/E C	Drange	09
VERTICAL	25							UR		F	Purple	10
		DROPLINES	0 <u>X</u>	l	Length	ft		MESH SIZE RAN	IGE	C	Combination	98 <u>X</u>
			0 X		147 · 17			_		C	Other	99 <u> </u>
RATIO -	1/2	ADDITIONAL WGTS	0 <u>X</u>	l	Weight	lbs			·		*SEE COM	MENIS
					_		SURFACE SYST	EM	BUOYLIN	E		•
	(circle one)	ANCHOR(S)	0	<u>X</u>	lype	<u>,</u>			# of Buoyl	ne(s)		2
I WINE SIZE	24 A (E	Neurobau	•		Unknown	0	# of High Flyer(s))	<u>2</u>			
		Number	Z		Danforth-style	1 <u>X</u>	# - (D / -)		Length (a)	(g)	2	<u>οο</u> π
			100	(circle one)	Dead Weight	2	# of Buoy(s)		Z	_		0
		weight (total)	100		Combination	8	Curtana I		Type Code	;		<u>o</u>
FLOATLINE MATE	RIAL		(8)		Other	9	Surface L	line	2 ft Dereent of	Turne	750/	1059/
Linknown	0	SECURING METHOD	(5)				Length (a		s It Percent of	i ype	13%	123%
Electing (foom core	<u>ل</u>		2 V			<u> </u>	Turpa Cod		(Siliking / 1	ioating)		
Twistod Polypropyle) <u> </u>	Vossol/Ocoan Bot	2_ A				Type Cou		Diamotor		5 /	1 B in
		Vessel Only	۱۵۱۱۱ <u>۵</u>				Diameter	5 /	8 in			<u> </u>
ouner	J						Diameter		Mark2			
		ACTIVE USED?	0 1 X	Brand	1(s)		Mark?	NO 0	mark:		YES 1	x
		Number	16	Dian	Unknown	00	Mark.	YES 1	X WEAK		NO	YES
		Rumbor			Dukane	01 X					no	. 20
I FADI INF WEIGH	т	Frequency	10 kHz		Airmar	02			USED ON	SURFACE?	0 1	x
		. requeitey			Fumunda	03	GROUNDLINE	NO Y	ES	0011171021	°	
32.5	lbs/ net	PASSIVE USED?	0 X 1		Future Oceans LED	04				Number (tot:	al)	4
					Combination	98	USED?	0	1 X			
		Number			Other	99		-	· <u>· · ·</u>	Type Code		1
							Length (total)	, ,	6 ft	.)[
COMMENTS								·	USED ON	STRING?	0 1	x
	* Net Color =	5 blue, 5 pink and 5	clear.				Type Code		1		'	
										Number (tot	al) 7 :	5
							Diameter	3 /	8 in	- (·	
										Type Code	2	2

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			OBS/ TRIP ID	
			DATE LAND (mm/yy)	/
			PAGE #	OF
WEAK LINK TYPE CODES:	LINE TYPE CODES:	ADDITIONAL COMMENTS		
0 = Unknown	0 = Unknown	-		
1 = Rope of Appropriate Breaking Strength	1 = Sinking / Neutrally Buoyant			
2 = Off the Shelf	2 = Floating			
3 = Overhand Knot	8 = Combination			
4 = Hog Rings	9 = Other			
8 = Combination				
9 = Other				
DIAGRAMS FO	R REFERENCE ONLY			
Surface System Image: Surface System High Flyer Image: Surface System Buoy Wate Dist Btwn Floats attache Dist Btwn Floats attache Groundline Spa Photo Credit: NOAA Fisheries Service Northeast Regional Office (Original image modified) Tie				
FOR OFFICE USE ONLY				

GILLNET GE	EAR LOG	(FRONT)			OBS/TRIP ID	Α
NMFS FISH	ERIES AT	-SEA MONI	TORING PROG	RAM	DATE LANDED mm/yy	B /
ASMGGG (05/01/16				PAGE #	C of
GEAR CODE	GEAR #	# OF NETS	NET LENGTH	NET HEIGHT	TIEDOWNS USED?	TIEDOWN LENGTH
D	1	2	3	4	YES 🗌 13	14
			ft	ft	NO 🗌	ft
MESH SIZES	(Fill out me	sh MEASUREI	MENTS OR RANGE	=)		
MEASUREMEN	ITS (in.)				RANGE (in.)	
# NETS @	MESH SIZE		ACTUAL EST		MINIMUM	PINGERS USED?
					37	28 YES
34	35		36	OR	·	NO 🗌
	•				MAXIMUM	
	·				·	
COMMENTS						
GEAR CODE	GEAR #	# OF NETS	NET LENGTH		TIEDOWNS USED?	
GEAR CODE	GEAR #	# OF NETS	NET LENGTH	NET HEIGHT	TIEDOWNS USED?	TIEDOWN LENGTH
GEAR CODE	GEAR #	# OF NETS	NET LENGTH	NET HEIGHT	TIEDOWNS USED? YES	TIEDOWN LENGTH
	GEAR #	# OF NETS	NET LENGTH ft MENTS OR RANGE	NET HEIGHT	TIEDOWNS USED? YES NO	TIEDOWN LENGTH
GEAR CODE	GEAR #	# OF NETS	NET LENGTH ft MENTS OR RANGE	NET HEIGHT t ft 	TIEDOWNS USED? YES NO RANGE (in.)	TIEDOWN LENGTH
GEAR CODE	GEAR # (Fill out me ITS (in.)	# OF NETS	NET LENGTH ft MENTS OR RANGE	NET HEIGHT • ft =)	TIEDOWNS USED? YES NO RANGE (in.)	TIEDOWN LENGTH
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE	# OF NETS	NET LENGTH ft MENTS OR RANGE ACTUAL EST	NET HEIGHT • ft =)	TIEDOWNS USED? YES NO RANGE (in.) MINIMUM	TIEDOWN LENGTH
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE	# OF NETS	NET LENGTH ft MENTS OR RANGE ACTUAL EST	NET HEIGHT ft 	TIEDOWNS USED? YES _ NO _ RANGE (in.) MINIMUM	TIEDOWN LENGTH
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE	# OF NETS	NET LENGTH ft MENTS OR RANGE ACTUAL EST	NET HEIGHT • ft E) OR	TIEDOWNS USED? YES NO RANGE (in.) MINIMUM 	TIEDOWN LENGTHft PINGERS USED? YES NO
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE	# OF NETS sh MEASUREI	NET LENGTH ft MENTS OR RANGE ACTUAL EST	NET HEIGHT • ft E) OR	TIEDOWNS USED? YES NO RANGE (in.) MINIMUM	TIEDOWN LENGTH ft PINGERS USED? YES NO
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE	# OF NETS	NET LENGTH ft MENTS OR RANGE	NET HEIGHT · ft E) OR	TIEDOWNS USED? YES NO RANGE (in.) MINIMUM MAXIMUM	TIEDOWN LENGTH ft PINGERS USED? YES NO
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE	# OF NETS sh MEASUREI	NET LENGTH ft MENTS OR RANGE	NET HEIGHT ft OR	TIEDOWNS USED? YES NO NO	TIEDOWN LENGTHft PINGERS USED? YES NO
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE 	# OF NETS	NET LENGTH ft MENTS OR RANGE	NET HEIGHT ft OR	TIEDOWNS USED? YES NO NO	TIEDOWN LENGTH ft PINGERS USED? YES NO
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE	# OF NETS sh MEASUREI	NET LENGTH ft MENTS OR RANGE	NET HEIGHT ft OR	TIEDOWNS USED? YES NO RANGE (in.) MINIMUM	TIEDOWN LENGTHft PINGERS USED? YES NO
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE 	# OF NETS	NET LENGTH ft MENTS OR RANGE	NET HEIGHT ft OR	TIEDOWNS USED? YES NO RANGE (in.) MINIMUM	TIEDOWN LENGTH ft PINGERS USED? YES NO
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE	# OF NETS	NET LENGTH ft MENTS OR RANGE	NET HEIGHT ft OR	TIEDOWNS USED? YES NO	TIEDOWN LENGTH ft PINGERS USED? YES NO
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE 	# OF NETS	NET LENGTH ft MENTS OR RANGE	NET HEIGHT	TIEDOWNS USED? YES NO NO	TIEDOWN LENGTH ft PINGERS USED? YES NO
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE	# OF NETS	NET LENGTH ft MENTS OR RANGE ACTUAL EST	NET HEIGHT	TIEDOWNS USED? YES NO	TIEDOWN LENGTH ft PINGERS USED? YES NO
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE 	# OF NETS	NET LENGTH	NET HEIGHT	TIEDOWNS USED? YES NO	TIEDOWN LENGTHft PINGERS USED? YES NO
GEAR CODE	GEAR # (Fill out me ITS (in.) MESH SIZE	# OF NETS	NET LENGTH	NET HEIGHTft	TIEDOWNS USED? YES NO NO	TIEDOWN LENGTH

GILLNET GE	EAR LOG	(FRONT)		OBS/TRIP ID	A99002C		
NMFS FISH	ERIES AT	-SEA MONI	TORING P	RAM	DATE LANDED mm/yy	10 / 16	
ASMGGG (5/01/16					PAGE #	_1_ of _1_
GEAR CODE	GEAR #	# OF NETS	NET LENC	GTH	NET HEIGHT	TIEDOWNS USED?	TIEDOWN LENGTH
						YES X	
	01	10	300	ft	ft	NO 🗌	30 ft
MESH SIZES	(Fill out me	sh MEASURE	MENTS OR F	RANGE)		
MEASUREMEN	ITS (in.)					RANGE (in.)	
# NETS @	MESH SIZE		ACTUAL ES	т		MINIMUM	PINGERS USED?
7	<u> 10 0 </u>	0		X			YES X
					OR	·	NO 🗌
3	11.0	0		X		MAXIMUM	
	• ·						
						·	
COMMENTS	•			·			
	GEAR #	# OF NETS		274			
GEAR CODE	GEAR #	# OF NETS	NET LENG	GTH	NET HEIGHT	TIEDOWNS USED?	TIEDOWN LENGTH
GEAR CODE	GEAR #	# OF NETS	NET LENG	GTH "	NET HEIGHT	TIEDOWNS USED? YES	TIEDOWN LENGTH
GEAR CODE	GEAR #	# OF NETS	NET LENO 300 MENTS OR B	GTH ft	NET HEIGHT 85 ft	TIEDOWNS USED? YES NO X	TIEDOWN LENGTH ft
GEAR CODE	GEAR #	# OF NETS 6 esh MEASURE	NET LENO 300 MENTS OR R	GTH ft RANGE	NET HEIGHT 85 ft	TIEDOWNS USED? YES NO X	TIEDOWN LENGTH ft
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @	GEAR # 02 (Fill out me ITS (in.)	# OF NETS 6 esh MEASUREI	NET LENG 300 MENTS OR R	GTH ft RANGE	NET HEIGHT 8 . <u>5</u> _ ft :)	TIEDOWNS USED? YES NO X RANGE (in.)	TIEDOWN LENGTH
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @	GEAR # 02 (Fill out me ITS (in.) MESH SIZE	# OF NETS 6 esh MEASURE	NET LENC 300 MENTS OR R ACTUAL ES	GTH ft RANGE	NET HEIGHT 85 ft =)	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM	TIEDOWN LENGTH
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @	GEAR # 02 (Fill out me ITS (in.) MESH SIZE	# OF NETS 6 esh MEASURE	NET LENC 300 MENTS OR R ACTUAL ES	GTH ft RANGE	NET HEIGHT 85 ft =)	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM	TIEDOWN LENGTH
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @	GEAR # 02 (Fill out me ITS (in.) MESH SIZE	# OF NETS 6 esh MEASUREI	NET LENC 300 MENTS OR R ACTUAL ES	GTH ft RANGE	NET HEIGHT <u>8 . 5</u> ft OR	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM 62_5	TIEDOWN LENGTH
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @ 	GEAR # 0 2 (Fill out me ITS (in.) MESH SIZE	# OF NETS 6 esh MEASUREI	NET LENC 300 MENTS OR F ACTUAL ES	GTH ft RANGE	NET HEIGHT 85 ft =) OR	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM 62_5 MAXIMUM	TIEDOWN LENGTH
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GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @ 	GEAR # 02 (Fill out me ITS (in.) MESH SIZE 	# OF NETS 6 sh MEASURE	NET LENC 300 MENTS OR R ACTUAL ES	GTH ft RANGE	NET HEIGHT <u>8 . 5</u> ft OR	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM 62.5 MAXIMUM 75_0	TIEDOWN LENGTH
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @ COMMENTS	GEAR # 02 (Fill out me ITS (in.) MESH SIZE 	# OF NETS 6 esh MEASUREI	NET LENC 300 MENTS OR R ACTUAL ES	GTH ft RANGE	NET HEIGHT <u>8</u> . <u>5</u> ft OR	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM 62_5 MAXIMUM 75_0	TIEDOWN LENGTH
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @ COMMENTS	GEAR # 02 (Fill out me ITS (in.) MESH SIZE · ·	# OF NETS 6 sh MEASURE	NET LENC 300 MENTS OR R ACTUAL ES	GTH ft RANGE	NET HEIGHT <u>8 . 5</u> ft OR	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM 62.5 MAXIMUM 75_0	TIEDOWN LENGTH
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @ COMMENTS	GEAR # 02 (Fill out me ITS (in.) MESH SIZE 	# OF NETS 6 esh MEASUREI	NET LENC 300 MENTS OR F ACTUAL ES	GTH ft RANGE	NET HEIGHT <u>8</u> . <u>5</u> ft OR	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM 62_5 MAXIMUM 75_0	TIEDOWN LENGTH
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @ COMMENTS	GEAR # 0 2 (Fill out me ITS (in.) MESH SIZE	# OF NETS 6 sh MEASURE	NET LENC 300 MENTS OR R ACTUAL ES	GTH ft RANGE	NET HEIGHT <u>8 . 5</u> ft OR	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM 6. 2 5 MAXIMUM 7. 5 0	TIEDOWN LENGTH
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @ COMMENTS	GEAR # 02 (Fill out me ITS (in.) MESH SIZE 	# OF NETS 6 esh MEASUREI	NET LENC 300 MENTS OR F ACTUAL ES	GTH ft RANGE	NET HEIGHT <u>8 - 5</u> ft OR	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM 62.5 MAXIMUM 75_0	TIEDOWN LENGTH
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @ COMMENTS	GEAR # 02 (Fill out me ITS (in.) MESH SIZE 	# OF NETS 6 esh MEASURE	NET LENC 300 MENTS OR R ACTUAL ES	GTH ft RANGE	NET HEIGHT 8 . 5 ft E) OR	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM 62.5 MAXIMUM 75_0	TIEDOWN LENGTH
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @ COMMENTS	GEAR # 02 (Fill out me ITS (in.) MESH SIZE 	# OF NETS 6 esh MEASUREI	NET LENC 300 MENTS OR F ACTUAL ES	GTH RANGE	NET HEIGHT	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM 62.5 MAXIMUM 7.50	TIEDOWN LENGTH
GEAR CODE 100 MESH SIZES MEASUREMEN # NETS @ COMMENTS	GEAR # 02 (Fill out me ITS (in.) MESH SIZE 	# OF NETS 6 sh MEASUREI	NET LENC 300 MENTS OR F ACTUAL ES	GTH ft RANGE	NET HEIGHT8 . 5 ft OR	TIEDOWNS USED? YES NO X RANGE (in.) MINIMUM 62.5 MAXIMUM 75_0	TIEDOWN LENGTH

GILLNET GEAR LOG (BACK)			OBS/TRIP ID	
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ASMGGG 05/01/16			PAGE #	of
GEAR CODE GEAR # # OF NET	S NET LENGTH	NET HEIGHT	TIEDOWNS USED?	TIEDOWN LENGTH
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	ft	. ft	NO 🗌	ft
MESH SIZES (Fill out mesh MEASUF	REMENTS OR RANGE	E)		
MEASUREMENTS (in.)			RANGE (in.)	
# NETS @ MESH SIZE	ACTUAL EST		MINIMUM	PINGERS USED?
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			ΜΑΧΙΜΙΙΜ	
·				
GEAR CODE GEAR # # OF NET	S NET LENGTH	NET HEIGHT	TIEDOWNS USED?	TIEDOWN LENGTH
GEAR CODE GEAR # # OF NET	S NET LENGTH	NET HEIGHT	TIEDOWNS USED?	TIEDOWN LENGTH
GEAR CODE GEAR # # OF NET	S NET LENGTH	NET HEIGHT	TIEDOWNS USED? YES NO	TIEDOWN LENGTH
GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE	NET HEIGHT • ft E)	TIEDOWNS USED? YES NO	TIEDOWN LENGTH
GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE	NET HEIGHT • ft E)	TIEDOWNS USED? YES NO RANGE (in.)	TIEDOWN LENGTH
GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE	NET HEIGHT • ft E)	TIEDOWNS USED? YES NO RANGE (in.)	TIEDOWN LENGTH ft PINGERS USED?
GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE ACTUAL EST	NET HEIGHT • ft E)	TIEDOWNS USED? YES NO RANGE (in.) MINIMUM	TIEDOWN LENGTH ft PINGERS USED? YES
GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE ACTUAL EST	NET HEIGHT • ft E)	TIEDOWNS USED? YES NO RANGE (in.) MINIMUM	TIEDOWN LENGTHftftYES
GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE	NET HEIGHT • ft E) OR	TIEDOWNS USED? YES NO RANGE (in.) MINIMUM	TIEDOWN LENGTH
GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE ACTUAL EST 	NET HEIGHT · ft E) OR	TIEDOWNS USED? YES NO RANGE (in.) MINIMUM	TIEDOWN LENGTH
GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE	NET HEIGHT • ft E) OR	TIEDOWNS USED? YES NO RANGE (in.) MINIMUM MAXIMUM	TIEDOWN LENGTH
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GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE ACTUAL EST 	NET HEIGHT ft E) OR	TIEDOWNS USED? YES NO NO RANGE (in.) MINIMUM MAXIMUM	TIEDOWN LENGTHft PINGERS USED? YES NO
GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE ACTUAL EST	NET HEIGHT ft E) OR	TIEDOWNS USED? YES NO NO	TIEDOWN LENGTH
GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE	NET HEIGHT ft E) OR	TIEDOWNS USED? YES NO NO RANGE (in.) MINIMUM MAXIMUM FOR OFFICE USE ONLY	TIEDOWN LENGTHft PINGERS USED? YES NO
GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE ACTUAL EST	NET HEIGHT · ft E) OR	TIEDOWNS USED? YES NO NO RANGE (in.) MINIMUM	TIEDOWN LENGTH
GEAR CODE GEAR # # OF NET	S NET LENGTH ft REMENTS OR RANGE ACTUAL EST	NET HEIGHTft E) OR	TIEDOWNS USED? YES NO NO RANGE (in.) MINIMUM	TIEDOWN LENGTH ft PINGERS USED? YES NO
GEAR CODE GEAR # # OF NET	S NET LENGTH	NET HEIGHT ft E) OR	TIEDOWNS USED? YES NO RANGE (in.) MINIMUM	TIEDOWN LENGTH
GEAR CODE GEAR # # OF NET Image: Second control of the seco	S NET LENGTH	NET HEIGHTft E) OR	TIEDOWNS USED? YES NO NO RANGE (in.) MINIMUM	TIEDOWN LENGTHft PINGERS USED? YES NO

Gillnet Haul Log

In the gillnet fisheries, the following IAL species should be recorded in the <u>Gillnet Haul Log</u> species summary section:

- Bonito,
- Skipjack tuna,
- False albacore, and
- King mackerel.

Field #	Name	Collection Type/	Units/	Unknown Values
1	Marine Mammal Haul Watch?	Yes/No.	Check one	Cannot be unknown.
2	Depth, Leadline	Obtain from captain. If sink gillnet, should be the same as Bottom Depth.	Whole fathoms	Dash.
3*	Soak Duration	Obtain from captain if set date/time not available.	Hours, to the nearest tenth	Dash. Leave blank if Set Begin/End times entered.
4	Number of Nets Set	Should agree with total Number of Nets on Gillnet Gear Characteristics Log.	Whole number	Dash.
5*	Number of Nets Hauled	Visually confirm.	Whole number Rounded up ⁵	Dash.
6	Number of Nets Lost	Should be Number of Nets Set minus Number of Nets Hauled; comment if different.	Whole number	Dash.
7*	Number of Active Marine Mammal Deterrent Devices (Pingers) Hauled	Count only those devices on the portion of gear hauled, regardless of functioning status (see Pinger Tester Worksheet).	Whole number	Dash. Leave blank if not used on this gear.
8*	Number of Active Marine Mammal Deterrent Devices (Pingers) Lost	Do not count devices not seen because gear was not hauled.	Whole number	Dash. Leave blank if not used on this gear.
9	Number of Passive Marine Mammal Deterrent Devices Hauled	Count only those devices on the portion of gear hauled.	Whole number	Dash. Leave blank if not used on this gear.
10	Number of Passive Marine Mammal Deterrent Devices Lost	Do not count devices not seen because gear was not hauled.	Whole number	Dash. Leave blank if not used on this gear.
11	Set Method	Obtain from captain. "Past success in area" should be marked as Compass/LORAN. Describe "Other" on line 11A.	Check one	"00".

⁵ Record '0' if less than half of one net panel is hauled and there is **no** catch. Record '1' if less than one half of one net panel is hauled and there is catch.

GILLNET	LNET HAUL LOG OBS/ TRIP ID A IFS FISHERIES OBSERVER PROGRAM DATE LAND (mm/yy) B RCGH_ORHAUL_ORSPR_05/01/16 DATE LAND (mm/yy) C																	
NMFS FIS	SHERIES OBS	SERVER PRO	GRAM										DATE LA	AND (mm/y	/)	В	/	_
OBGGH	OBHAU OB	SPP 05/01/1	6										PAGE #			c	OF	
GEAR CODE	D GEAR # E	HAUL # F	HAUL OBS	? ON	-EFFORT?	MM W	ATCH?	CATCH?		INC TAKE?	WEATHER CODE		WIND	WAVE	HEIGHT C	EPTH, HAUL	BEGIN	
			NO 0	<u>G</u> NO	0 <u>H</u>	NO 0	1	NO 0	<u> </u>	NO 0 J		SPEED	DIRECTIO	NC	B	OTTOM	LEADLIN	E
			YES 1	YE	S 1	YES 1		YES 1		YES 1	К	L	м	• N		0	2	
													kn		ft	fm		fm
SET INFO	DATE AN	D TIME		L	ATITUDE / LO	NGITUDE	(DD MM.M) - LORAN	(XXXXX)				TARGET SPI	ECIES	C	ODE(S)	GEAR CO	OND CODE
	mm/dd/yy	24 hours	Station 1	Latitud	e / Bearing		Station 2	L	ongitude	e / Bearing	SOAK DURATI	JN				v		
5 BEGIN	u		9960 -		3		9960 -				3		U			v	F	
		•									Ű	F		NETS	IF MM	DETERRENT	S USED.	
	/ /	:	9960 -				9960 -					hrs				ACTIV	E PA	ASSIVE
HAUL INFO							•				WATER TEMP		SET	4				
H BEGIN			9960 -				9960 -								HAULE	D <u>7</u>		9
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U END			9960 -				9960 -				т				LOST	8		10
L	/ /	:										F	LOST	6				
COMMENTS													SET METHO	D 11				
													Linknown	00		Vieuel	05	
													Temperature	00		Visual Mixed	05 98	
										s	AMPLE WEIGHT MU	II TIPI IFR	Bottom Contr	ours 02		Other	99	
											W		Compass/Loi	ran 03			11A	
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	SPEC	IES					W	EIGHT			SPECIES			_			W	EIGHT
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	NAME		CODE	WEIGHT	POUNDS	CODE	D/R	CODE			NAME		CODE	WEIGHT	POUNDS	CODE	D/R	CODE
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GILLNET	HAUL LOG													OBS/ TR	IP ID			A99	089C	
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OBGGH	OBHAU OB	SPP 05/01/	/16											PAGE #				1	OF 2	
GEAR CODE	GEAR #	HAUL #	HAUL OE	S? ON	-EFFORT?	MM W	ATCH?	CATCH?		INC TAKE?	WEAT	HER CODE		WIND	WA	VE HEI	GHT DE	PTH, HAUL	BEGIN	
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S BEGIN	mm/dd/yy	24 110015	Station	Latituu	er beaning		Station 2		ongituu	er beaning	30	JAN DUNATIO								
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T END			9960 -				9960 -							NUMBER OF	NETS		IF MM DE	TERRENT	S USED:	
	/ /	:	3300 -				3300 -					72_0	hrs					ACTIVI	E PA	SSIVE
HAUL INFO											W	ATER TEMP		SET	15					
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Ca	aptain gutting lar	ger monks								S	SAMPLE	WEIGHT MUL	TIPLIER	Bottom Conto	ours	02 X		Other	99	
													1	Compass/Loi	ran	03				
	0050						10							Tide/Current		04		1	14/	
	SPEC	IES		SUB-			V	FST				SPECIES			SUB	-			VV	FST
				SAMPLE		DISP		METHO	D						SAMP	LE		DISP		METHOD
	NAME		CODE	WEIGHT	POUNDS	CODE	D/R	CODE			NA	ME		CODE	WEIGI	HT P	OUNDS	CODE	D/R	CODE
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a Monkfish	(liver)				12	100		01	12											
				·	12	100		01	12						··					
з Monkfish	1			·	350	100	D	03	13						··	_				
4 Monkfish	1			·	24	012	R	01	14											
5 Winter SI	kate (wings)				35	100	D	04	15											
	- 4 -				400	004														
6 Little Ska	ate			·	100	001	R	03	16						·•					
7 Jonah Cr	rab				50	001	R	06	17					_	·					
8 Americar	n Lobster				7.2	100	R	01	18											
a Atlantic (	Cod				17.5	012	R	01	10											
					17.0	012			19						· · · ·					
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GILLNET H		G					OBS/TRIP ID			A		
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WEATHER CO	DE	WAVE HI	EIGHT	GEAR (	COND	CODE	TARGET SPECIES 1		TARGET S	PECIES	62	
	ĸ	N	f+		D					112		
			11		1		LATITUDE/LONGIT		MM M)	02		
HAUL	mm/dd/v	v		24 hour	's					or (S		2FΔ)*
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WEATHER CO	DE	WAVE H	EIGHT	GEAR (	COND	CODE	TARGET	SPECIES 1		TARGET S	PECIES	52	
01		2	ft		210		Мс	onkfish		Winter	Skate		
HAUL	DATE			TIME			LATITU	JDE/LONGITU	JDE (DD	MM.M)	1		
INFO	mm/dd/y	у		24 hour	S		LATITUE	DE	LONGITU	JDE	or (S	FAT AF	REA)*
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₂ Monkfish (I	ivers)	•	12.5	100	D	01	12		•				
₃ Monkfish			350	100	R	03	13						
Winter Ska	ite						-						
4		•	35	100	D	04	14		•				
$_{5}$ Little Skate	)		100	002	R	03	15						
₆ Jonah Crat	Jonah Crab 50				R	05	16		•				
American					-								
7 Lobster 7.2				100	R	01	17		•				
₈ Sponge, NK3				001	R	06	18						
9		_					19						
							13		•				
10		•					20		•				

## **Alternative Platform Sampling Trips**

All information will refer to the commercial vessel that you are watching rather than the vessel you are on. If these fields are not available, document estimated values in the COMMENTS section whenever possible.

<u>Gillnet Gear Characteristics Log</u>: Record gear characteristics **only for gear retrievals that are witnessed**. Do not record gear characteristics for gears that may have been hauled prior to the arrival of the alternative platform vessel. Individual gear characteristics for all gears used may not be available; fill this log out as completely as possible including any combined information in the COMMENTS section.

<u>Gillnet Haul Log</u>: If a haul is already in progress when the alternative platform vessel arrives at the fishing vessel, do not record any information for this haul. Record any information in COMMENTS (ex: "F/V hauled two strings prior to the arrival of the alternative platform vessel, kept about 100 lbs of Spanish mackerel."), and wait until the next haul commences to begin collecting data.

**Conduct a Marine Mammal Watch for all hauls.** Only record kept catch information on each haul of the trip. Discard catch may be noted in COMMENTS.

<u>Vessel and Trip Information Log</u>: In the NUMBER OF TRIP HAULS and NUMBER OF UNOBSERVED HAULS fields, record **only the number of hauls that you witness from HAUL BEGIN to HAUL END**. Do not include hauls that the fishing vessel completed prior to the arrival of the alternative platform vessel or partially witnessed hauls. If possible, obtain the total pounds landed by the fishing vessel at the dock and record them in COMMENTS.

## Beach Seine Gear/Beach Anchored Gillnet Gear Characteristics Log

If the beach-based fishery operator has two or more identical gears which are hauled separately, complete only one <u>Beach Seine / Beach Anchored Gillnet Gear Characteristics Log</u> and record the consecutively assigned numbers of all identical gears described in GEAR NUMBER(S) (#1). See the beach seine fishery definitions below and GEAR NUMBER(S) (#1) for more information on defining and numbering gears.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Gear Number	Unique identifier for each beach seine	2-digit code	Cannot be unknown.
		or beach anchored gillnet.		
		Can be a list of gear numbers if all		
		have identical characteristics.		
2	Number of Nets	Individual nets in the wing, total for	Whole number	Cannot be unknown.
		the gear.		
		Do not include bunt or wash net.		
3	Bunt Used?	Yes/No.	Check one	"9".
4	Bunt Length	Obtain from the captain.	Whole feet	Dash.
		Total length along float line.		
		Do not include the length of the wing		
		or wash net.		
5	Bunt Height	Obtain from the captain.	Feet, to the	Dash.
		Do not calculate.	nearest tenth	
		Height of the endline.		
6	Bunt Mesh Size	Obtain from the captain.	Inches, to the	Dash.
			nearest	
			hundredth	
7	Bunt Mesh Size – Actual	Actual (measured) or Estimated	Circle one	"0".
	or Estimated?	(captain).		
8	Bunt Mesh Count,	Obtain from captain or count.	Whole number	Dash.
	Vertical			
9	Bunt Hanging Ratio	Obtain from captain or measure ratio	Fraction	Dash.
		of floatline to stretched mesh.		
10	Bunt Twine Size Number	Obtain from captain.	3-digit number	"000".
		See Appendix D – Conversion Tables.		
11	Bunt Twine Size – Actual	Actual (measured) or Estimated	Check one	"0".
	or Estimated?	(captain provided).		
12	Bunt Twine Number of	Obtain from captain.	Whole number	Dash.
	Strands	Total number of individual strands		
		used to make up the bunt webbing.		
		Monofilament = 1 strand.		
13	Bunt Twine Color Code	Visually confirm.	2-digit code	"00".
14	Bunt Material	Obtain from captain or visually	Check one	"0".
		confirm.		
		Describe "Other" on line 14A.		
15	Floatline Material	Obtain from captain.	Check one	"0".
		Describe "Other" on line 15A.		
16	Wash Net Used?	Yes/No.	Check one	"9".
17	Wash Net Length	Obtain from captain.	Whole Feet	Dash.
18	Floats Used?	Yes/No.	Check one	"9".
19	Distance Between Floats	Obtain from captain.	Whole Feet	Dash.
20	Anchors Used?	Visually confirm.	Check one	"9".

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
21	Number of Anchors	Count.	Whole number	Dash. Leave blank if Anchors Used = "No".
22	Anchor Type	Visually confirm. Describe "Other" or "Combination" on line 22A.	Check one	"0". Leave blank if Anchors Used = "No".
23	Anchor Weight	Read weight stamped on anchor or obtain from captain. Total weight (sum all anchors).	Whole pounds	Dash. Leave blank if Anchors Used = "No".
24	Anchor Weight – Actual or Estimated?	Actual (stamped) or Estimate (captain).	Check one	"0". Leave blank if Anchors Used = "No".
25	Leadline Weight	Obtain from captain. Weighted average.	Pounds, to the nearest tenth	Dash.
26	Active Marine Mammal Deterrent Devices (Pingers) Used?	Visually confirm. When gear was set.	Check one	"9".
27	Number of AMMDD (Pingers)	Count or obtain from captain if set is not witnessed. When gear was set.	Whole number	Dash. Leave blank if AMMDD Used = "No".
28	AMMDD Brand(s)	Visually confirm. Describe "Other" or "Combination" on line 28A.	Check one	"00". Leave blank if AMMDD Used = "No".
29	AMMDD Frequency	Obtain from captain. Majority, or highest frequency if equal number.	Kilohertz	Dash. Leave blank if AMMDD Used = "No".
30	Passive Marine Mammal Deterrent Devices Used?	Visually confirm. When gear was set.	Check one	"9".
31	Number of PMMDD	Count or obtain from captain if set is not witnessed. When gear was set.	Whole number	Dash. Leave blank if PMMDD Used = "No".
32	Wing Net Number	Starting with the net closest to the beach.	Whole number	Cannot be unknown for first net.
33	Wing Net Length	Obtain from captain. Total length along floatline. Do not include the length of the bunt or wash net.	Whole feet	Dash.
34	Wing Net Height	Obtain from captain. Do not calculate. Height of the endline.	Feet, to the nearest tenth	Dash.
35	Wing Net Mesh Size	Obtain from captain.	Inches, to the nearest hundredth	Dash.
36	Wing Mesh Size – Actual or Estimated?	Actual (measured) or Estimated (captain).	Circle one	"0".
37	Wing Mesh Count, Vertical	Obtain from captain or count.	Whole number	Dash.
38	Wing Hanging Ratio	Obtain from captain or measure ratio of floatline to stretched mesh.	Fraction	Dash.
39	Wing Twine Size Number	Obtain from captain. See Appendix D – Conversion Tables.	3-digit number	"000".

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
40	Wing Twine Size –	Actual (measured) or Estimated	Check one	"0".
	Actual or Estimated?	(captain provided).		
41	Wing Twine Number of	Obtain from captain.	Whole number	Dash.
	Strands	Total number of individual strands		
		used to make up the bunt webbing.		
		Monofilament has one strand.		
42	Wing Twine Color Code	Visually confirm.	2-digit code	"00".
43	Wing Net Material	Obtain from captain or visually	Check one	"0".
		confirm.		
		Describe "Other" on line 43A.		

<b>BEACH SEINE GEAR / B</b>	BEACH ANCHORED GILLNET GEAR CHARACTER	RISTICS LOG	0	BS/ TRIP ID	Α		
NMFS FISHERIES OBSI	ERVER PROGRAM		D	ATE LAND (I	mm/yy) <b>B</b>	/	
OBBSG OBBSW 05/0	1/16		P	AGE #	С	OF	-
GEAR CODE	GEAR NUMBER(S)		N	UMBER OF	NETS		
BUNT CHARACTERISTICS:	I GEAR CHARACTERISTICS:	WING CHARACTERISTI	ICS.		2		
USED? No (0) Yes(1)	USED ? NO YES MEASUREMENTS	Net	t # <b>32</b>	Net #	Net #	Net #	Net #
3 LENGTH <u>4</u> ft	WASH NET <b>16</b> 0 1 Length17 ft	LENGTH (ft)	33				
HEIGHT <u>5</u> . ft	FLOATS <b>18</b> 0 1 Dist Between <b>19</b> ft	HEIGHT (ft)	. 34				-
MESH 6 (circle one)	ANCHOR (S) 20 0 1 22	MESH SIZE (in)	. 35				
SIZE IN A / E	Number <b>21</b> Unknown 0	A / E (circle) A /	'E <b>36</b>	A / E	A / E	A / E	A / E
MESH COUNT, VERTICAL <u>8</u>	Weight (total)       23       Ib       Danforth-style       1	MESH COUNT, VERTICAL	37				
HANGING 9	Combination         8           Actual         1         24         Other         9	HANGING RATIO	/ 38	/	/	/	/
	Estimated 2 22A	TWINE SIZE	39				
TWINE (circle one) SIZE <b>10</b> A / E	LEADLINE WEIGHT Ibs / net	A / E (circle) A /	'E <b>40</b>	A / E	A / E	A / E	A / E
11 # STRANDS 12	MM DETERRENT DEVICES USED? ACTIVE <b>26</b> 0 1 Brand(s) <b>28</b>	# STRANDS	41				
COLOR CODE 13	Unknown 00 Number Dukane 01	COLOR CODE	42				
NET MATERIAL 14	Airmar 02 Frequency <b>29</b> kHz Fumunda 03	NET MATERIAL Unknown 0	43	0	0	0	0
Unknown 0 Nylon 1	Combination 98 Other 99 <b>28A</b>	Nylon 1 Other 9		9 9	9 9	9 9	0 1 9
Other 9 <b>14A</b>	PASSIVE <b>30</b> 0 1 Number <b>31</b>		43A				
FLOATLINE MATERIAL	COLOR CODES COMMENTS			1	1	1	<u> </u>
15     0       Unknown     0       Floating (foam core)     1       Twisted polypropylene     2	Unknown 00 Multi-color 07 Clear 01 Red 08 White 02 Orange 09 Pink 03 Purple 10 Black 04 Combinatior 98						
Othor 0	Green 05 Other 99						
15Δ							

<b>BEACH SEINE GEAR / E</b>	BEACH ANCHORED GILLNET GEAR CHARACTERISTICS I	LOG	OBS/ TRIP ID	A99011-
NMFS FISHERIES OBSE	RVER PROGRAM		DATE LAND (mm/yy)	12 / 16
OBBSG OBBSW 05/0	1/16		PAGE #	1 OF 1
GEAR CODE	GEAR NUMBER(S)		NUMBER OF NETS	
0 7 0				
	1			2
BUNT CHARACTERISTICS:	GEAR CHARACTERISTICS: WING CHAI	RACTERISTICS:	1 Not # 2 Not #	Net # Net #
LENGTH <b>30</b> ft	WASH NET 0 X 1 Length ft LENGTH (ft)	) <b>200</b>	250	
HEIGHT <b>80</b> ft	FLOATS 0 1 X Dist Between 5 ft HEIGHT (ft)	10.0	12 5	
MESH (circle one)	ANCHOR (S) 0 1 X MESH SIZE	E (in) 4.50	4.25	<u> </u>
SIZE <u>4.0</u> in A $\overline{E}$	Type A/E	E (circle) A /E	) A (E) A /	E A/E A/E
MESH COUNT, VERTICAL <b>25</b>	Weight (total) <b>110</b> Ib Dead Weight 2 VERTICA	INT, <b>25</b>	20	
HANGING	Actual 1 Other 9	RATIO 1/2	<b>1 / 2</b> /	/ /
RATIO <u>1 / 2</u>	Estimated 2 X danforth & sandbags TWINE SIZE	E 10	10	
TWINE(circle one)SIZE10A /(E)	LEADLINE WEIGHT 37 Ibs / net A / F	E (circle) A E	) A/E A/	E A/E A/E
# STRANDS <b>3</b>	MM DETERRENT DEVICES USED? ACTIVE 0_X_ 1 Brand(s) # STRANDS	S 1	1	
COLOR CODE 04	Unknown         0         COLOR CO           Number          Dukane         1	DE <b>05</b>	02	
	Airmar 2 NET MATEF	RIAL		
Unknown 0	Combination 8	/lon 1 X	0 0 1 <b>X</b> 1	_ 0 0
Nylon 1 <b>X</b>	Other 9 Other	her 9	9 9	99
Other 9	PASSIVE 0 X 1 Number			
FLOATLINE MATERIAL	COLOR CODES COMMENTS			
Unknown 0	Unknown 00 Multi-color 07 Anchors: 2 (25 lb) danforths	on beach and 2	(30 lb) sand bags	on end of net
	Clear 01 Red 08		( ) U	
Floating (foam core) 1	White         02         Orange         09         LL Weight:         50 lbs / 600 ft * 45           Dipk         03         Durpla         10	60 ft = 37.5 lbs		
Twisted polypropylene 2 X	Black 04 Combination 98			
	Green 05 Other 99			
Other 9	Blue 06			

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
1	Marine Mammal Haul Watch?	Yes/No.	Check one	Cannot be unknown.
2	Soak Duration	Obtain from captain if set is not witnessed.	Hours, to the nearest tenth	Dash.
3	Number of Nets Set	Should agree with total Number of Nets on Beach Seine Gear/Beach Anchored Gillnet Gear Characteristics Log <b>Error! Not a valid result for table.</b> .	Whole number	Dash.
4	Number of Nets Hauled	Visually confirm.	Whole number Rounded up	Dash.
5	Number of Nets Lost	Should be Number of Nets Set minus Number of Nets Hauled; comment if different.	Whole number	Dash.
6	Number of Active Marine Mammal Deterrent Devices (Pingers) Hauled	Count only those devices on the portion of gear hauled. Regardless of functioning status.	Whole number	Dash. Leave blank if not used on this gear.
7	Number of Active Marine Mammal Deterrent Devices (Pingers) Lost	Do not count devices not seen because gear was not hauled.	Whole number	Dash. Leave blank if not used on this gear.
8	Number of Passive Marine Mammal Deterrent Devices Hauled	Count only those devices on the portion of gear hauled.	Whole number	Dash. Leave blank if not used on this gear.
9	Number of Passive Marine Mammal Deterrent Devices Lost	Do not count devices not seen because gear was not hauled.	Whole number	Dash. Leave blank if not used on this gear.

# Beach Seine/Beach Anchored Gillnet Haul Log

BEACH S	EINE / BEAG		RED GILLI	NET HA	UL LOG							OBS/	TRIP ID		Α		
NMFS FIS	SHERIES OB	SERVER P				DATE	LAND (m	nm/yy)	В	/							
OBBSH	<u>OBHAU OB</u>	<u>3SPP 05/01</u>	/16						-			PAGE	#		C _	OF	
GEAR CODE	D GEAR # E	HAUL #	F HAUL OB	S?	MM WATC	H?	CATC	H?	INC TAKE?	WEATHER CODE		W	/IND	V	VAVE HEIGH	T GEAI	R COND CODE
			NO 0	G	NO 0	1	NO 0	<u> </u>	NO 0 <u>J</u>		SPEED		DIRECTIO	NC			
			YES 1		YES 1		YES 1		YES 1	к		L	м	0	Ν		Р
	-											kn			f	ťt	
HAUL INFO	DATE (mm/dd/yy)	TIME (24 hrs)								EST SOAK DUR	WATER	TEMP	TARGET	SPECIES		COD	E(S)
BEGIN	Q	R	-	LAT	ITUDE/LON	GITUDE (I	DD MM.	<b>M) -</b> LORAN (>	(XXXX)								
-	/ /	:	Station 1	Latitu	de/Bearing	Sta	ation 2	Longitu	ide/Bearing	2	Т	0	U				v
END	/ /	:	9960-		S	99	60-			. 1	nrs .	F					
COMMENTS		•									NUMBER OF	NETS	IF	MM DETE	RRENTS US	ED	
															ACTIVE	PASS	SIVE
											SET	3	_				
													HA	AULED	6		8
										ł	HAULED	4	<u> </u>				
											_		LC	DST	7		9
										I	OST	5	_				
										-							
						1											
-	SPE	CIES		-			\	VEIGHT		SPECIES			-		-	W	EIGHT
						DISP		ESTIMATIO N							DISP		METHOD
	NAME		CODE		POUNDS	CODE	D/R	METHOD		NAME		CODE		POUNDS	S CODE	D/R	CODE
1	۵'		B'		יח	E,	F	e.	11								
	~							5	11								
2									12								
3									13								
4									14								
_																	
5									15								
6					-				16								
7									17								
8									18								
q									19								
10									20								

BEACH S	EINE / BEACH	ANCHORE			UL LOG							OBS/	TRIP ID			499011-	
NMFS FIS	HERIES OBS			DATE	ELAND (r	nm/yy)		06 / 16									
OBBSH (	OBHAU OBS	SPP 05/01/1	6						_			PAGE	= #			OF	2
GEAR CODE	GEAR #	HAUL #	HAUL OB	5?	MM WATC	H?	CATCH	1?	INC TAKE?	WEATHER CODE		W	/IND	W	AVE HEIGH	T GEAF	R COND CODE
			NO 0		NO 0		NO 0		NO 0 <u>X</u>		SI	PEED	DIRECT	ION			
0 7 0	0 1		YES 1	<u>x</u>	YES 1	<u>(                                    </u>	YES 1	<u>X</u>	YES 1					0			
										02		7 kn	4	5	1 f	t	210
	DATE (mm/dd/yy)	TIME (24 hrs)							~~~~	EST SOAK DUR	W	ATER TEMP	TARGET	SPECIES		COD	=(S)
BEGIN	06/ 26 / 16	05 . 16	Station 1	LAII	IUDE/LON		DD MM.I	I) - LORAN ()	(XXXX)			0	Woo	kfich			
	007 20 7 10	05.10	Station	Latitu	der Dearing	01		Longitt	ide/Deaning			0	Wea	KIISII			
	06/26/16	06 : 03	9960-		35 ° 13.8	99	60-		75 ° 32.8	14.3	hrs	61.0F					
COMMENTS											NUMBE	ER OF NETS	IF	MM DETER	RENTS US	ED	
															ACTIVE	PASS	SIVE
Net	set approximate	ly at 15:00 yest	erday.								SET	2	-				
													н	AULED			
FIS	ning in Hatteras i	Bight.									HAULE	D <u>2</u>		007			
											LOST	0		051	<u> </u>		
											1031		_				
	SPECI	ES	-				V	VEIGHT		SPECIES		-				W	EIGHT
								ESTIMATIO									ESTIMATION
	NAME		CODE		POUNDS	CODE	D/R	METHOD		NAME		CODE		POUNDS	CODE	D/R	CODE
1 Weakf	ish				172	100	R	01	11					_			
2 Bluefie	sh				75	100	P	01	12								
2 Dident	511				15	100		01	12								
3 Northe	ern Kingfish				18	100	R	01	13					_			
. Buttor	fich					100	в	01									
4 Dutter	11311				Ű	100	Ň	01	14								
₅ Atlanti	ic Menhaden				10	001	R	01	15								
	- h				40	004	_										
6 Horses	shoe Crab				12	001	ĸ	UI	16								
7									17								
ö						1	+		18								
9									19								
10									20								

## Longline Gear Characteristics Log

#### Demersal Longline (Bottom Longline, Tub Trawl)

Changes in gear configuration (e.g., number of hooks, number of floats, distance between gangions, mainline material, etc.) requires the completion of a new Longline Gear Characteristics Log. The following fields should be filled out in the Demersal Longline fishery: A, B, C, D, 1–48, 57–58, 60. Leave all other fields blank.

#### **Pelagic Longline**

Changes in numbers of items used such as hooks and floats are factored into the estimated average and do not require a separate <u>Longline Gear Characteristics Log</u>. A change in gear configuration (e.g., use of light sticks, hooks between floats, or fishing depth) towards another target species does require the completion of a new <u>Longline Gear Characteristics Log</u>. The following fields should be filled out in the Pelagic Longline fishery: A, B, C, D, 1–60 (ALL FIELDS).

#### Other Line Fishing Gears (Rod & Reel, Trolling Gears)

For other line fishing gears, assign each separate physical gear its own gear number. If there are physical gears with the same configuration used, complete only one <u>Longline Gear Characteristics Log</u> and record the consecutively assigned numbers of all gears with the same configuration. For these gears, complete only the following fields on <u>the Longline Gear Characteristics Log</u>: A, B, C, D, 1, 2, 5–16. Leave all other fields blank.

#### ASM Trips - All Gear Types

Complete all fields on the ASM Longline Gear Characteristics Log. If the vessel has two or more identical gears which are hauled separately, complete a separate Longline Gear Characteristics Log section for each individual gear.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1*	Gear Number	Unique identifier for each longline	2-digit code	Cannot be unknown.
		string, rod and reel, or troll line.		
		NEFOP: Can be a list of gear numbers if		
		all have identical characteristics.		
2*	Number of Hooks	Obtain from captain.	Whole number	Dash.
		Hooks with more than one point are still		
		considered one hook.		
3	Section Length	Obtain from captain or calculate by	Nautical miles,	Dash.
		dividing the mainline length by the	to the nearest	
		number of sections fished.	tenth	
4	Number of Sections	Obtain from captain or count.	Whole number	Dash.
		One section may consist of several		
		"tubs" of gear tied together.		
5	Mainline Number of	Obtain from captain or count.	Whole number	Dash.
	Strands	If "multi-strand" and the strands are not		
		counted then record a dash (—) and		
		COMMENT.		
6	Mainline Diameter	Obtain from captain.	Millimeter, to	Dash.
			the nearest	
			tenth	
7	Mainline Test	Obtain from captain.	Whole pounds	Dash.
8	Mainline Material	Visually confirm or obtain from captain.	1-digit code	"0".
9	Mainline Color	Visually confirm.	2-digit code	"00".
10	Leaders Used?	Yes/No.	Check one	"9".
		Visually confirm.		
11	Leader Length	Obtain from captain.	Whole feet	Dash.
12	Leader Test	Obtain from captain.	Whole pounds	Dash.

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
13	Leader Material	Visually confirm or obtain from captain.	1-digit code	"0".
14*	Hook Brand	Obtain from captain or from hook box.	Brand name	Dash.
		If more than 2 hook types, record		Dash secondary line if
4 <b>-</b>		additional in comments.		only 1 hook type.
15*	Hook Model/Pattern	Obtain from captain or from hook box.	Model or	Dash. Dash sasandaru lina if
	Number	additional in comments	pattern	Dash secondary line if
16*	Hook Size	Obtain from cantain or from book box	Hook size	Dash
10		If more than 2 hook types, record		Dash secondary line if
		additional in comments.		only 1 hook type.
20	Distance Between	Obtain from captain.	Whole feet	Dash.
	Gangions	Average distance between gangions.		
21	Gangion Diameter	Obtain from captain.	Millimeter to	Dash.
			the nearest	
22	Congion Test	Obtain from contain	tenth	Dach
22	Gangion Longth	Obtain from captain.	Whole foot	Dash.
25	Gangion Length	Do not include leader length	WHOIE IEEL	Dasii.
		If more than 2 gangion lengths, record		
		additional in comments.		
24	Gangion Count	Obtain from captain.	Whole number	Dash.
		Number of gangion at given length.		
25	Gangion Material	Visually confirm or obtain from captain.	1-digit code	"0".
26	Gangion Color	Visually confirm.	2-digit code	"00".
27	Number of Buoylines	Count.	Whole number	Dash.
		Does not include line from vessel to		
28	Buoyline Length	Obtain from cantain	Whole feet	Dash
20	buoyine Length	Average.	whole reet	Leave blank if Number
				of Buoylines = 0.
29	Buoyline Type Code	Obtain from captain	Check one	"0".
30	Buoyline Percent	Obtain from captain.	Whole percent	Dash.
	Sinking/Neutrally	Average.		Leave blank if Number
	Buoyant [°]			of Buoylines = 0 or
31	Buoyline Percent	Obtain from captain.	Whole percent	Buoyline Type Code ≠ "∘"
27	Floating Ruovling Diamotor	Average.	Inchos in	ð. Dach
52	Bubyline Diameter		fractional form	Leave blank if Number
		Average.	indecionarionini	of Buovlines = 0.
33	Buoyline Mark?	Yes/No.	Check one	"9".
		Visually confirm.		Leave blank if Number
		4" colored mark mid-way on buoyline.		of Buoylines = 0.
34	Groundline Used?	Yes/No.	Check one	"9".
		Visually confirm.		
35	Groundline Length	Obtain from captain.	Whole feet	Dash.
		i otal (sum both sides).		Leave blank if
				"No"
36	Groundline Type Code	Obtain from cantain	Check one	"O"
	- Groundine Type Code			

 $^{^{\}rm 6}$  #30 and #31 must add up to 100

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
37	Groundline Diameter	Obtain from captain.	Inches, in	Dash.
		Average.	fractional form	Leave blank if
				Groundline Used =
20	Number of High Flyers	Count	Whole number	NO".
50	Number of Fight Figers	Total (sum both sides)		Dasii.
39	Number of Buovs	Count.	Whole number	Dash.
		Total connected to the buoyline (sum		
		both sides).		
40	Surface Line Length	Obtain from captain.	Whole feet	Dash if unknown or if
		Average length between any high		no surface line used.
		flyer(s) and/or buoy(s) on the same		
41	Curfeee Line Ture	buoyline.	Chaskans	"0"
41	Code	Obtain from captain.	спеск опе	0.
42	Surface Line Diameter	Obtain from captain	Inches in	Dash
		Average.	fractional form	Leave blank if no
				surface line used.
43	Surface System Mark?	Yes/No.	Check one	"9".
		Visually confirm.		
44	Weak Links Used on	Yes/No.	Check one	"9".
	Surface?	Visually confirm.		
45	Number of Surface	Obtain from captain.	Whole number	Dash.
	Weak Links	Total (sum both sides).		Leave blank if Surface
				"No"
46	Surface Weak Link	Visually confirm	Check one	"0".
	Type Code	,		Leave blank if Surface
				Weak Links Used =
				"No".
47	Weak Links Used on	Yes/No.	Check one	"9".
40	String?	Visually confirm.		
48	Number of String	Obtain from captain.	Whole number	Dash.
	WEAK LINKS	Total (all field).		Week Links Lised -
				"No".
49	String Weak Link Type	Visually confirm	Check one	"0".
	Code	,		Leave blank if String
				Weak Links Used =
				"No".
50	Floats Used?	Yes/No.	Check one	"9".
		Visually confirm each type of float used.		
51	Number of Floats	Obtain from captain.	Whole number	Dash.
52	Hooks between	If floats are only used at beginning and	vinole number	Dasii.
		end of string, this value should equal		
		the total number of hooks.		
53	Light Sticks Used	Yes/No.	Check one	"9".
	_	Visually confirm.		
54	Light Stick Color	Visually confirm	2-digit code	"00".
55	Light Stick Number	Obtain from captain.	Whole number	Dash.

Field #	Name	Collection Type/	Units/ Format	Unknown Values
56	Dropline Length	Obtain from captain.	Whole feet	Dash.
		Record average length.		
57	Distance between	Obtain from captain.	Whole feet	Dash.
	Droplines			
58	Swivels Used?	Yes/No.	Check one	"9".
		Visually confirm.		
59	Number of Swivels per	Obtain from captain.	Whole number	Dash.
	Gangions			
60	Number of Radio	Visually confirm or obtain from captain.	Whole number	Dash.
	Beacons			
61	Number of Radar	Visually confirm or obtain from captain.	Whole number	Dash.
	Reflectors			

LONGLINE GEAR CHARA	<b>CTERISTICS LOG</b>			o	BS/TRIP ID	Α		
NMFS FISHERIES OBSEF	RVER PROGRAM			D	ATE LANDED mm/y	y B	в /	
OBLLG 05/01/16				P	AGE #	С	OF	
GEAR CODE D GEAR NUMB	ER(S) 1	NUMBER OF HOOKS	SECTION LENGTH		NUMBER OF SEC	TIONS 4		
			·	nm				
MAINLINE # OF STRANDS 5	LEADERS USED? 10 NO 0YES 1	BUOYLINE # of Buoylines 27	SURFACE SYSTEM # of High Flyers 38	<b>FLOATS</b> ** TYPE	USED? 50 NO YES	NUMBE 51	AVG HOO R BETWE 52	OKS EN
DIAMETER 6 mm	LENGTH <b>11</b> ft	Length (avg) 28ft	# of Buoys 39	Unknown Polyball	01 01			_
MATERIAL 8	MATERIAL 13	Type Code 29 30 31	Surface Line Length (avg) 40ft	Other	0 1 0 1			_
COLOR 9	ANCHOR USED? 17	Percent of Type <u>% / %</u> (sinking/floating)	Type Code 41	LIGHT STICK	<b>(S USED?</b> ** YES 153	DROPLINE	** 56	ft
BRAND MODEL/PATTERN	SIZE NO 0 YES WEIGHT	Diameter <b>32</b> / in	Diameter <b>42</b> / in	COLOR _	54	DISTANCE		
<u>14</u> <u>15</u>	1618lbs Actual 19 1 Estimated 2	Mark? 33 NO 0 YES 1	Mark? 43 NO 0 YES 1		55	BETWEEN		_ft
GANGIONS	LENGTH COUNT	USED? 34 0 1	44	USED? NO 0	YES 1 <b>58</b>	RADIO BEACONS	**60	_
DISTANCE BETWEEN <b>20</b> ft	ftft	Length (total) 35ft	Number (total)         45	# OF SWIVEI	LS/GANGION		COUNT	
DIAMETER <b>21</b> mm		Diameter 37 / in	Type Code 46	COLOR	<u> </u>	MA	TERIAL	_
TEST 22lbs	COLOR <u>26</u>		<b>47</b> USED ON STRING? 0 1	Unknown 0 Clear 0	0 Multi-Color 1 Red	07 Unk 08 Mor	ເກown no-filament Nylon	0 1
COMMENTS			Number (total) 48	White 02 Pink 02 Black 04	2 Orange 3 Purple 4 Combination	09 Cott 10 Stee 98 Mult	ton el Wire Iti-strand Nylon	2 3 4
All Gears	Complete for all gears		Type Code 49	Blue 0	6 Other	99 Oth	er	9
Bottom & Pelagic	Complete only for Bottom Longline	and Pelagic Longline				** only reco	ord for Pelagic Lor	ıgline
Pelagic	Complete only for Pelagic Longline							

LONGLINE	E GEAR CHAR	ACTERIST		6								OBS/	TRIP ID		A	<b>\99015-</b>	
NMFS FIS	HERIES OBSE	RVER PRO	OGRAM									DATE	E LANDED mm/y	у	11	/ 1	6
OBLLG 0	5/01/16											PAG	E #		1	OF 1	
GEAR CODE	GEAR NUM	BER(S)			NUMBER OF HO	OKS	S	SECTION LEN	IGTH			١	NUMBER OF SEC	TIONS			
0 1 0	)	1, 2, 3				900								1			
-		1								).9	nm						
# OF STRAND	s	LEADERS USED? NO	D 0 <u>X</u> YE	S 1	BUOYLINE		SURFAC	E SYSTEM			FLOATS '	י* נ א	JSED? NO YES	N	JMBER	AVG HO BETWE	OKS EEN
					# of Buoylines	2	# of High	Flyers		2							
DIAMETER	<u>5.0</u> mm	LENGTH		_ft							Unknown		01				_
тгот	000 %	тгот		lha	Length (avg)	<u>200</u> ft	# of Buoy	/S		2	Polyball	L.	01				_
1551	<u>900</u> lbs	IESI		lbs	Type Code	8	Surfa	ice Line			Other	D	0 1 0 1				—
MATERIAL	04	MATERIAL			Type bode		Lena	th (ava)		<b>20</b> ft	Other		° '				_
				_	Percent of Type	75% / 25%	. 3	(* 3)			LIGHT ST	ICKS L	JSED? **	DROP	LINE **		
COLOR	06				(sinking/floating)		Туре	Code		1	NO 0	Y	(ES 1				
HOOKS			ANCHOR	USED?										LENG	тн		ft
BRAND	MODEL/PATTERN	SIZE	NO 0	YES X	Diameter	<u> </u>	n Diam	eter		5/8 in	COLOR		<u> </u>				
Mustad	20077	10/0	WEIGHT	<b>25</b> lha	Mark2		V Mark	2 N/						DISTA			"
Mustau	39977	12/0	Actual	<b></b> IDS 1		10 0 1EST	Nark	r nu		1ES I <u>A</u>	NUMBER			BEIW			_ ⁿ
			Estimated	2 X	GROUNDLINE	NO YES	WEAK LI	INKS	NO	YES	SWIVELS					COUNT	
											USED?			RADIO	b		
GANGIONS		LENGTH		COUNT	USED?	0 1 <u>X</u>					NO 0 <u>X</u>	_ `	/ES 1	BEAC	ONS **		_
DIOTANOE						<b>00</b> <i>4</i>	USED OF	N SURFACE?	0 <u>X</u>	1						0011117	
	<b>6</b> #	1	ft	900	Length (total)	<u> </u>	Num	hor (total)			# OF SWI	VELS/C	JANGION		D	COUNT	
	n		ft		Type Code	1	Num							REFL	ECTORS	2	
DIAMETER	<u>2.0</u> mm				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		Туре	Code									_
		MATE	RIAL	01	Diameter	<u>3/8</u> ir	n				COLOR				MATERIA	L	
TEST	400 lbs										Unknown	00	Multi-Color	07	Unknown		0
0000050170		COLO	R	06	_		USED Of	N STRING?	0 <u>X</u>	1	Clear	01	Red	08	Mono-filar	ment Nylon	1
COMMENTS							Num	her (total)			White	02	Orange	09 10	Cotton Steel Wire	2	2
Ма	inline is braided nvl	on - number of	f strands ur	nknown.			Num				Black	04	Combination	98	Multi-strar	nd Nvlon	4
	· · · · · · · · · · · · · · · · · · ·			-			Туре	Code			Green	05	Other	99	Other		9
											Blue	06					

** only record for Pelagic Longline

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

LONGLINE GEAR CHARACTERISTICS LOG (FRONT)					Δ	
				,		1
	01/2016		OONAM		C	7 of
			COMMENTS			
		# OF HOOKS <b>2</b>	COMMENTS			
		L		_		
HOOKS	BRAND	MODEL/PATTERN	SIZE			
HOOK #1	14	15	16			
HOOK #2						
GEAR CODE	GEAR #	# OF HOOKS	COMMENTS			
HOOKS	BRAND	MODEL/PATTERN	SIZE	]		
HOOK #1						
HOOK #2				-		
I			<u>.</u>			
GEAR CODE	GEAR #	# OF HOOKS	COMMENTS			
			SIZE	1		
	BRAND	MODEL/PATTERIN	SIZE			
HOOK #2				-		
GEAR CODE	GEAR #	# OF HOOKS	COMMENTS			
HOOKS	BRAND	MODEL/PATTERN	SIZE	]		
HOOK #1						
HOOK #2				4		
ADDITIONAL (	COMMENTS					

LONGLINE GEAR CHARACTERISTICS LOG (FRONT)			DBS/TRIPID		A99001-		
NMFS FISHER	RIES AT-SEA	MONITORING PR	OGRAM		DATE LANDED mm/y	у	10 / 16
ASMLLG 05/	01/2016			F	PAGE #		_ <u>1</u> of1
GEAR CODE	GEAR #	# OF HOOKS	COMMENTS				
0 1 0	0 1	900					
HOOKS	BRAND	MODEL/PATTERN	SIZE				
HOOK #1	Eagle						
	Claw	L9014	12/0				
HOOK #2							
GEAR CODE	GEAR #		COMMENTS				
			COMMENTO				
0 1 0	0 2	1200					
HOOKS	BRAND	MODEL/PATTERN	SIZE				
HOOK #1				1			
	Mustad	39960	11/0				
HOOK #2							
	0545.4						
GEAR CODE	GEAR #	# OF HOOKS	COMMENTS				
				_			
HOOKS	BRAND	MODEL/PATTERN	SIZE				
HOOK #1							
HOOK #2							
GEAR CODE	GEAR #	# OF HOOKS	COMMENTS				
HOOKS	BRAND	MODEL/PATTERN	SIZE				
HOOK #1							
				4			
HOUK #2							
		<u> </u>	I	<u> </u>			

LONGLINE GEAR CHARACTERISTICS LOG (BACK)				0	BS/TRIPID	
NMFS FISHER	RIES AT-SEA	MONITORING PR	OGRAM	D	ATE LANDED mm/yy	1
ASMLLG 05/	01/2016			P	AGE #	of
GEAR CODE	GEAR #	# OF HOOKS	COMMENTS			
HOOKS	BRAND	MODEL/PATTERN	SIZE			
HOOK #1						
HOOK #2						
		-				
GEAR CODE	GEAR #	# OF HOOKS	COMMENTS			
HOOKS	BRAND	MODEL/PATTERN	SIZE			
HOOK #1						
HOOK #2						
GEAR CODE	GEAR #	# OF HOOKS	COMMENTS			
HOOKS	BRAND	MODEL/PATTERN	SIZE			
HOOK #1						
HOOK #2						
GEAR CODE	GEAR #	# OF HOOKS	COMMENTS			
HOOKS	BRAND	MODEL/PATTERN	SIZE			
HOOK #1						
HOOK #2						
ADDITIONAL	COMMENTS				FOR OFFI	CE USE ONLY

# **Longline Haul Log**

If rod and reel or other line fishing gears are used, the following fields on the <u>Longline Haul Log</u> may be omitted: MAINLINE LENGTH (#6), ITEMS USED: RATTLERS and SURFACE LIGHTS (#9), NUMBER OF ITEMS USED: RATTLERS and SURFACE LIGHTS (#10), NUMBER OF HOOKS TENDED (#15) and NUMBER OF HOOKS REBAITED (#16).

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1*	Soak Duration	Obtain from captain if set is not	Hours, to the	Dash.
		witnessed.	nearest tenth	Dash for rod and reel.
		Only on ASM trips using demersal		
		longline gear.		
2	Mainline Length	Obtain from captain.	Nautical miles,	Dash.
		Account for all of tubs that are tied	to the nearest	Leave blank if not
		together to form a single string.	tenth	demersal or pelagic.
3	Set Speed	Obtain from captain.	Knots, to the	Dash.
		Average vessel setting or trolling	nearest tenth	Dash if rod and reel
		speed.		used and not trolling.
4	Set Method	Obtain from captain.	Check one	"00".
		Describe "Other" on line 4A.		
5	Rattlers Used?	Yes/No.	Check one	"9".
		Visually confirm.		Always "No" if not
				demersal or pelagic.
6	Number Rattlers	Visually confirm or obtain from	Whole number	Dash.
		captain.		Dash if not demersal
				or pelagic.
7	Surface Lights Used?	Yes/No.	Check one	"9".
		Visually confirm.		Always "No" if not
				demersal or pelagic.
8	Number Surface Lights	Visually confirm or obtain from	Whole number	Dash.
		captain.		Dash if not demersal
				or pelagic.
9	Additional Weights	Yes/No.	Check one	"9".
	Used?	Visually confirm.		
10	Number Additional	Visually confirm or obtain from	Whole number	Dash.
	Weights	captain.		
11	Weight of Additional	Obtain from captain.	Whole pounds	Dash.
	Line Weights			
12	Hooks Set	Obtain from captain.	Whole number	Dash.
		Total for string.		
13	Hooks Hauled	Obtain from captain.	Whole number	Dash.
		Total for string.		
14	Hooks Lost	Obtain from captain.	Whole number	Dash.
		Total for string.		
		It different than number lost minus		
		number set, explain in COMMENTS.		
15	Hooks Tended	Obtain from captain.	Whole number	Dash.
		Hooks pulled during "hotlining"		"U" if not demersal or
		(vessel runs the line and only pulls		pelagic.
		hooks where floats are submerged).		"U" if hooks are not
				tended.
Field #	Name	Collection Type/	Units/	Unknown Values
---------	----------------------	---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	------------------	----------------------------------------------------------------------------------
		Special Instructions	Format	
16	Hooks Rebaited	Obtain from captain. Hooks pulled, rebaited, and reset.	Whole number	Dash. "0" if not demersal or pelagic. "0" if hooks are not rebaited.
17	Pounds of Bait	Obtain from captain. When gear was set. Up to three major baits.	Whole pounds	Dash. Dash if artificial bait.
18	Kinds of Bait	Obtain from captain. When gear was set. See Appendix P1 – Bait Kind Codes	2-digit code	"00".
19	Type of Bait	Obtain from captain. When gear was set. See Appendix P2 – Bait Type Codes	1-digit code	"0".
20	Condition of Bait	Obtain from captain. When gear was set. See Appendix P3 – Bait Condition Codes	1-digit code	"0".
21	Depth Range of Hooks	Obtain from captain or calculate as sum of dropline, gangion, leader, and shank lengths. Shallowest to deepest. Fishing depth from surface, not the entire water column. May be same value in demersal longline.	Whole fathoms	Dash.

LONGLINE HAUL LO	DG											OBS/ TRI	P ID	Α	
NMFS FISHERIES O	FS FISHERIES OBSERVER PROGRAM											DATE LA	ND (mm/yy	/) B	/
OBLLH OBHAU O	BSPP 05/01/1	6										PAGE #		С	OF
GEAR CODE <b>D</b> GEAR #	E HAUL # E	HAUL OBS	2 OI	J-FFFORT?	CATCH?	II	NC TAKE?	WEATHER CO	DF	V			WAVE HE		GEAR COND
		NO 0 C	G NO	) 0 <b>H</b>	NO 0	I N	0 0 J			SPEED	DIRE	CTION		HAUL BEG	
		YES 1	YE	S 1	YES 1	Y	ES 1	к		L	5	M o	Ν	0	P
											kn	-		ft fr	m
SET/HAUL DATE	AND TIME			LATITUDE /	LONGITUDE	DD MM.	M) - LORAN (X	XXXX)		WATER TEMP	TAR	GET SPECIE	S		CODE(S)
INFO mm/dd/yy	24 hours	Station 1	Latitu	de / Bearing		Station 2	2 Longitu	de / Bearing							
S BEGIN <b>Q</b>	R	0000		Č.		0000		Č.		т	0	U			v
E / /	:	9900 -		S		9960 -					F				
T END ** / /	:	9960 -				9960 -					o MAIN F LENG	NLINE GTH **		SET METHOD	4
H BEGIN **		0060				0060					0			Unknown	00
A / /	:	9960 -				9960 -					F	2		Temperature	01
U END		0060				0060					0			Bottom Contours	02
L / /	:	9900 -				9900 -					F _		nm	Compass/Loran	03
ITEMS USED?			NU	JMBER OF H	IOOKS	BAIT					SET	SPEED		Tide/Current	04
TYPE	NO YES	NUMBE	R				LBS	KIND	TYPE	COND			3	Visual	05
Rattlers	051	6	SE	т	12		17	18	19	20	_		_ kn	Eddy	06
						#1					ноо	OK DEPTH		Mixed	98
Surface Lights	071	8	HA	ULED	13						RAN	IGE		Other	99
						#2				_			21		
Additional Line Wts	0 <b>9</b> 1	10	LC	ST	14									4A	
						#3							fm		
			TE	NDED	15	SAMPL	E WEIGHT	OMMENTS					** only rec	ord for Demersal an	d Pelagic Longline.
WEIGHT OF ADDITIONAL						MULTIP	LIER								
LINE WEIGHTS	<u>11</u> lbs		RE	BAITED	16	v	v								
SF	PECIES				_	WE	IGHT								
			SAMP			E	METHOD								
NAME		CODE	WEIGHT	POUNDS	CODE	D/R	CODE								
Α'		В'	C'	D'	E'	F'	G'								
1															
2															
3			·												
4			·												
5			·												
6															
7			·	-											
8															
9			·												
10															

LONGLINE HAUL LOG										OBS/ TR	IP ID			A9	9015-
NMFS FISHERIES OBSERVER PR	FS FISHERIES OBSERVER PROGRAM											y)	0	7	/ 16
OBLLH OBHAU OBSPP 05/01/	16									PAGE #				1 (	OF 1
GEAR CODE GEAR # HAUL #	HAUL OBS?	ON-EFFORT?	CATCH?	INC TA	KE?	WEATHER COD	DE		WIN	ID	WAVE HE	IGHT	DEPTH,	(	GEAR COND
	NO 0	NO 0	NO 0	NO 0	х			SPEED		DIRECTION			HAUL BE	GIN	CODE
	YES 1 X	YES 1 X	YES 1	X YES 1						0					
		_				01		20	kn	0	3	ft	36	fm	610
SET/HAUL DATE AND TIME		LATITUDE /	LONGITUDE	E (DD MM.M) - L	ORAN (XX	XXX)		WATER TEMP		TARGET SPECI	ES			(	CODE(S)
INFO mm/dd/yy 24 hours	Station 1	Latitude / Bearing		Station 2	Longitud	e / Bearing									
S BEGIN	9960 -			9960 -					0	Haddock					
E 07 / 15 / 16 05 : 30		42 ° 0	0.2			67 ° 38.7		54.3	F			1			
T END **	9960 -			9960 -					0	MAINLINE		SET M	ETHOD		
07/15/16 05 : 42		41 ° 59	9.4			67 ° 38.2		54.3	F	LENGTH **					
H BEGIN **	9960 -			9960 -					0			Unknov	vn	(	00 00
		41 ° 59	9.6			67 ° 39.0		54.8	F	-		Tempe	rature	(	01 <u> </u>
	9960 -	40.0		9960 -		67 ° 00 4		o	0		•	Bottom	Contours	(	02 <u>x</u>
				DAIT		07 30.4		55.0	F		9 nm	Compa	ss/Loran		
		NUMBER OF F	100K5	BAIT	IPC	KIND	TVDE			SET SPEED		Viewal	urrent	(	)4 <u> </u>
Rattlers 0 ¥ 1	5 NUMBER	SET.	900		LDO	KIND	TIPE	COND		5	<b>2</b> kn	Eddy			05 <u> </u>
				#1	30	10	4	6				Mixed			28
Surface Lights 0 X 1		HAULED	895						_	RANGE		Other		ç	99 <u> </u>
				#2						TUTUE		Outor			
Additional Line Wts 0 1	K 2	LOST	5												
		-		#3						10 —	<b>36</b> fm				
		TENDED	0	SAMPLE WE	IGHT CO	OMMENTS					** only rea	cord for I	Demersal	and Pe	elagic Longline.
WEIGHT OF ADDITIONAL		MULTIPLIER													
LINE WEIGHTS 10	os	REBAITED	0			Was not ab	le to ob	otain actual weig	ghts	or length freque	encies due	to time	constra	ints	
SPECIES			_	WEIGHT		Spiny dogfi	sh esti	mated weight w	/as b	ased on 5 lbs p	er dogfish	(60 do <u>c</u>	lfish)		
		SAMP	DISP	ESTIN											
NAME	CODE W	VEIGHT POUNDS	CODE	D/R CC	DDE										
						Only one ha	addock	fell off the hoo	k bet	fore coming ont	ooard				
Haddock		50	100	D C	)5										
Winter Skate		250	001	R C	)5										
				_	_										
Spiny Dogfish			001	R C	)5										
			400												
MONKTISN	+	10	100	к (	5										
Haddock		2	012		5										
Haddock		· 3	012	K U	15										
Atlantic Cod		12	100	R r	15										
		12	100		,5										

		00									•		
									/				
					RUG	RAIVI		DATE LANDED	mm/yy			1	<i>t</i>
		ASIVISEE		1050								0	יי
GEAR CODE	GEAR N	UMBER	HAUL NUN	/IBER				BSERVED?			?	_	_
D		E				F	YES 🗌	NO 🗌		YES 🗌		NO	
					]			G			J		
WEATHER CO	DE	WAVE HE	EIGHT	GEAR (	COND	CODE	TARGET	SPECIES 1		TARGET S	PECIES	52	
	IZ.		<i>c</i> ,		-								
	n IDATE	N	π		Ρ					NANA NA)	02		
HAUL	DATE										or (07		۲. ۲.
	mm/dd/y	у		24 nour	S		LAIIIUL		LONGIT	IDE	or (S		(EA)"
BEGIN HAUL	Q	1 1		R	:			S				S2	
END HAUL		1 1			:								
COMMENTS								* Enter only if lat	itude/longit	ude coordinat	es are no	ot availa	ble
										SOAK DUF	RATION		
											1		
											·_	hr	S
										MAINLINE	LENGTI	Н	
											2		
												nr	n
										SAMPLE V	VEIGHT	MULT	IPLIER
											VV		
		SAMP		DISP		FST			SAMP		DISP		EST
SPECIES NAM	IE	WEIGHT	POUNDS	CODE	D/R	METH.	SPECIES	S NAME	WEIGHT	POUNDS	CODE	D/R	METH.
A'		C'	D'	E'	F'	G'							
1		•					11		•				
2		•					12		•				
3		•					13		•				
4		•					14		•				
5		_					15						
							15						
6							16						
7							17						
8		•					18		<u> </u>				
9		•					19						
10							20		<b>=</b>				

LONGLINE I	HAUL L	.OG						OBS/TRIP ID			A9	90020	<u> </u>
NMFS FISH		AT-SEA	MONITOF	RING P	ROG	RAM		DATE LANDED	mm/yy		10	/16	5 5
ASMLLH AS	MHAU	ASMSP	P 05/01/20	016				PAGE #			1	0	of <u>2</u>
GEAR CODE	GEAR N	UMBER	HAUL NUN	/IBER			HAUL OF	BSERVED?		INC TAKE?	?		
0 1 0	0	4	0	0 4	]		YES 🗶	NO 🗌		YES 🗌		NO 🛛	K
WEATHER CO	DE	WAVE H	EIGHT	GEAR (	COND	CODE	TARGET	SPECIES 1		TARGET S	A99002C         10       /16         1of_2         KE?         NO <x< td="">         T SPECIES 2         nates are not available         Or         Or         Image: stress of the stress of the</x<>		
01		2	ft		610		На	ddock		Atlanti	c Cod		
HAUL	DATE			TIME			LATITU	IDE/LONGITU	JDE (DD	MM.M)			
INFO	mm/dd/y	у		24 hour	S		LATITUD	E	LONGITU	JDE	or (ST	FAT AF	REA)*
BEGIN HAUL	10	[/] 04 [/]	′ 16	13	: į	52		41° 25.5	71°	26.4			
END HAUL	10	/ 04	/ 16	15	: 3	34		41° 27.3	<b>71°</b> 2	26.9			
COMMENTS								* Enter only if lat	itude/longit	ude coordinat	tes are no	ot availa	ble
										SOAK DUF	RATION		
										2	24(	<b>)</b> hr	S
										MAINLINE	LENGT	Η	
											1 6		_
												nr	n Idi ied
											LIGITI	MOLT	
											•		
SPECIES NAM	E	SAMP.	POUNDS		D/R	EST. METH	SPECIES		SAMP.	POUNDS		D/R	EST. METH
					-				WEIGHT		CODE		
1 Haddock			46	100	D	01	11		•				
₂ Winter Ska	te		250	001	R	05	12						
₃ Spiny Dog	fish	•	300	001	R	05	13		•				
4 Monkfish			10.2	100	R	01	14						
_ Haddock			34	012	R	01	15						
 Atlantic Co	d	•	10.7	100	P	01			·				
6		•	12.1	100	ň		16		•				
⁷ Sponge, NI	K		3	001	R	06	17		•				
8		•					18		•				
							10						
a		•				<u> </u>	19		*				
10							20						

### Lobster, Crab, and Fish Pot Gear Characteristics Log

If the vessel has two or more identical gears which are hauled separately, complete only one <u>Lobster, Crab, and Fish Pot</u> <u>Gear Characteristics Log</u> and record the consecutively assigned numbers of all identical gears described in GEAR NUMBER(S) (#1).

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Gear Number	Unique identifier for each string of	2-digit code	Cannot be unknown.
		pots or traps.		
		Can be a list of gear numbers if all		
		have identical characteristics.		
2	Number of Pots	Individual pots, total for the string.	Whole number	Cannot be unknown.
3	Pot Shape	Visually confirm.	2-digit code	"00".
4	Pot Side Construction	Visually confirm.	1-digit code	"0".
5	Pot Top Length	Measure.	Whole inches	Dash.
6	Pot Top Width	Measure.	Whole inches	Dash.
7	Pot Bottom Length	Measure.	Whole inches	Dash.
8	Pot Bottom Width	Measure.	Whole inches	Dash.
9	Height	Measure.	Whole inches	Dash.
10	Groundline Length	Obtain from captain.	Whole feet	Dash.
11	Groundline Type Code	Obtain from cantain	1-digit code	"∩"
12	Groundline Type code	Obtain from captain	Fraction of an	Dash
12	Groundline Diameter		inch	Dasn.
13	Escape Vent Used?	Yes/No.	Check one	"9".
14	Escape Vent Number	Visually confirm.	Whole	Dash.
		,	number.	
			weighted	
			average	
15	Escape Vent Shape	Visually confirm.	2-digit code	"00".
16	Escape Vent Length	Measure with calipers.	Inches, to the	Dash.
			nearest tenth	
17	Escape Vent Height	Measure with calipers.	Inches, to the	Dash.
			nearest tenth	
18	Escape Vent Location	Visually confirm.	Check one	"0".
19	Entrance Number	Visually confirm.	Whole	Dash.
			number,	
			weighted	
			average	
20	Entrance Ring Size	Measure with calipers.	Inches, to the	Dash.
			nearest tenth	
21	Entrance Location	Visually confirm.	Check one	"0".
22	Biodegradable Panel	Yes/No.	Check one	"9".
	Used?			
23	Biodegradable Panel	Visually confirm.	Check one	"0".
	Attachment Type			
24	Bait Method	Visually confirm.	Check one	"0".
		Describe "other" or "combination" on		
		line 24A.		
25	Number of High Flyers	Count.	Whole number	Dash.
		Total (sum both sides).		

Field #	Name	Collection Type/	Units/	Unknown Values
26	Number of Buoys	Count. Total connected to the buoyline (sum both sides).	Whole number	Dash.
27	Surface Line Length	Obtain from captain. Average length between any high flyer(s) and/or buoy(s) on the same buoyline.	Whole feet	Dash if unknown or if no surface line used.
28	Surface Line Type Code	Obtain from captain.	Check one	"0". Leave blank if no surface line used.
29	Surface Line Diameter	Obtain from captain. Average.	Inches, in fractional form	Dash. Leave blank if no surface line used.
30	Surface System Mark?	Yes/No. Visually confirm.	Check one	"9".
31	Weak Links Used on Surface?	Yes/No. Visually confirm.	Check one	"9".
32	Number of Surface Weak Links	Obtain from captain. Total (sum both sides).	Whole number	Dash. Leave blank if Surface Weak Links Used = "No".
33	Surface Weak Link Type Code	Visually confirm.	Check one	"0". Leave blank if Surface Weak Links Used = "No".
34	Gangions Used?	Yes/No.	Check one	"9".
35	Gangions Length	Obtain from captain.	Whole feet, average	Dash.
36	Gangions Type Code	Obtain from captain.	1-digit code	"0".
37	Gangions Diameter	Obtain from captain.	Fraction of an inch, average	Dash.
38	Number of Buoylines	Count. Does not include line from vessel to gear.	Whole number	Dash.
39	Buoyline Length	Obtain from captain. Average.	Whole feet	Dash. Leave blank if Number of Buoylines = 0.
40	Buoyline Type Code	Obtain from captain.	Check one	"0". Leave blank if Number of Buoylines = 0.
41	Buoyline Percent Sinking/Neutrally Buoyant	Obtain from captain. Average.	Whole percent	Dash. Leave blank if Number of Buoylines = 0 or
42	Buoyline Percent Floating	Obtain from captain. Average.	Whole percent	Buoyline Type Code ≠ "8".
43	Buoyline Diameter	Obtain from captain. Average.	Inches, in fractional form	Dash. Leave blank if Number of Buoylines = 0.
44	Buoyline Mark?	Yes/No. Visually confirm. 4" colored mark mid-way on buoyline.	Check one	"9". Leave blank if Number of Buoylines = 0.
45	Anchors Used?	Visually confirm.	Check one	"9".

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
46	Number of Anchors	Count.	Whole number	Dash.
				Leave blank if Anchors
				Used = "No".
47	Anchor Weight	Read weight stamped on anchor or	Whole pounds	Dash.
		obtain from captain.		Leave blank if Anchors
		Total weight (sum all anchors).		Used = "No".
48	Anchor Weight – Actual	Actual (stamped) or Estimated	Check one	"0".
	or Estimated?	(captain).		Leave blank if Anchors
				Used = "No".
49	Anchor Type	Visually confirm.	Check one	"0".
		Describe "other" or "combination" on		Leave blank if Anchors
		line 49A.		Used = "No".
50	Length of Line Between	Obtain from captain.	Whole feet,	Dash.
	Anchor and Gangion		average	
51	Anchor Line Type Code	Obtain from captain.	1-digit code	"0".
52	Anchor Line Diameter	Obtain from captain.	Fraction of an	Dash.
			inch, average	

LOBSTER, CRAB, & FISH POT	GEAR CHARACTERISTIC	S LOG		OBS/TRIP ID	Α
NMFS FISHERIES OBSERVER	PROGRAM			DATE LANDED mm/yy	B /
OBPTG 05/01/16				PAGE #	C OF
GEAR CODE <b>D</b> GEAR NUMBER(S)		NUMBER OF POTS		COMMENTS	
	1	2			
				-	
POT CHARACTERISTICS	ENTRANCE	SURFACE SYSTEMS	ANCHOR(S)		
Shape Code <u>3</u>	Number <u>19</u>	# of High Flyer(s) 25	USED? 45 NO 0YES 1		
Side Construction	Inside Ring				
Code <u>4</u>	Size <u>20</u> . in	# of Buoys 26	Number <u>46</u>		
DIMENSIONS	Location 21		(circle one)		
Length (in) Width (in)	Unknown 0	<b></b> .	Weight (total) <u>47</u> lbs 48 A / E		
	Top 1	Surface Line Length (avg) 27 ft	Type <b>49</b>		
lop <u>5 6</u>			Unknown 0		
	End 3	Type Code <u>28</u>	Danforth-style 1		
Bottom <u>7 8</u>	Combination 8	<b>D</b> 's sectors <b>20</b> /	Dead Weight 2		
	Other 9	Diameter <u>29</u> / in			
Height <u>9</u> in			Other 9		
GROUNDLINE	BIODEGRADABLE PANEL	Mark? 30 NO 0 YES 1			
Length of Line	22	WEAK LINKS 31 NO YES	<u>49A</u>		
Btw Pots (avg) <u>10</u> ft	USED? NO 0 YES 1	USED ON SURFACE? 0 1	ANCHOR LINE		
The sector dd		Number (total) <u>32</u>	Level of the Dive		
lype code <u>11</u>	Attachment Type 23	T	Length of Line Btwn		
	Unknown 0	Type Code <u>33</u>	Anchor & Ganglon (avg) 50 ft		
Diameter <u>12</u> / in	Iron Hog Rings 1	GANGIONS			
	Degradable Plastic 2	USED? 34 NO 0 YES 1	Type Code <u>51</u>		
ESCAPE VENT NO YES	Softwood Lathe 3				
USED? 13 01	Uncoated Wire 4	Length (avg) <u>35</u> ft	Diameter <u>52</u> / in		
	Combination 8				
Number <u>14</u>	Other 9	Type Code <u>36</u>	RECTANGULA	R LOBSTER TE	
	23A	<b>37</b> /	WIRE COL	NSTRUCTION	
Shape Code				Kitchen	
	BAIT	BUOYLINE		121012	
Length <u>16</u> in	METHOD 24	# of Buoyline(s) 38		Bart Bag	Тор
			Top		Midth
Height <u>17</u> in	Unknown 0	Length (avg) <u>39</u> ft			
Location 18	String 1				Height
Unknown 0	Bait Bag 2	Type Code 40			
	Metal Ring 3				
Side 2	Not Attached 7	Percent of Type <u>41 %/ 42 %</u>	Better	Bottom Length	=
Ena 3	Combination 8	(sinking/floating)	Width	$\leftarrow$	
Combination 8	Other 9	Diameter <u>43</u> / in	Biodeg	radable Escape nel Vent	
Other 9			Parlor		
<u>18A</u>	24A	Mark? 44 NO 0 YES 1			

# LOBSTED CDAR & EISH DOT GEAD CHADACTEDISTICS LOG

NMFS FISHERIES OBSERVER PROGRAM         Date LANCED         mm/y         No. // 1         No. // 1           0 OPTO         0.501/16         CEAR NUMBER(0)         NUMBER OF POTS         COMMENTS           0 OPTO         0.501/16         NUMBER OF POTS         0         COMMENTS           0 NUMBER OF POTS         0         VERTO         SUBFACE SYSTEMS         NUMBER OF POTS           0 NUMBER OF POTS         0         VERTO         NUMBER OF POTS         COMMENTS           0 NUMBER OF POTS         NUMBER OF POTS         NUMBER OF NO 0_VES 1 X         NUMBER OF NO 0_VES 1 X           Norder         0         NUMBER OF NO 0_VES 1 X         Number Train 0_1         Comments           0 NUMBER OF NO 0_VES 1 X         Number Train 0_2         Norder 1_2         Comments         Comments           0 NUMBER OF NO 0_VES 1 X         Norder 0_1         Comments         State 2_2         Comments         Norder 0_2           0 NUMBER OF NO 0_VES 1 X         Norder 0_1         State X = 0         Norder 0_1         Norder 0_2         Norder 0_2           0 NUMBER OF NO 0_VES 1 X         Norder 0_1         Norder 0_1         Norder 0_1         Norder 0_2         Norder 0_2           0 No 0_VES 1 X         Norder 0_1         Norder 0_2         VES VS NS         Norder 0_2	LOBSTER, CRAB, & FISH PO	T GEAR CHARACTERISTICS	S LOG		OBS/TRIP ID	A99025-
OBPTC         Description         PAGE #         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I         I <thi< th="">         I</thi<>	NMFS FISHERIES OBSERVER	R PROGRAM			DATE LANDED mm/yy	05 / 16
GEAR CODE         GEAR NUMBER(S)         NUMBER OF POTS         COMMENTS           2         0         0         1.2,9,10,13,15-19,21,25,28,32-35,37-40         10           DOT CHARACTERISTICS         NUMber 2         eff4gh Flyer(s)         2         NUMBER (S)         USED?         NUMBER (S)         USED?         NO (-YES 1 X)           Sing Code         0         Number         2         Number         (STRANCE         NUMBER (S)         USED?         NO (-YES 1 X)           Longth (n)         Width (n)         Unknown         0         Surface Line Length (long)         5         NUMber (S)         Unknown         (STRANCE           Top         48         26         Sinde         2 X         Type Code         1         Unknown         (STRANCE)           Bettom         48         32         Contribution         6         Dameter         5 / 8 in         Number (s)         Number (s)         Number (s)         Number (s)           1         18         in         Strate Line Length (long)         7         0         Number (s)         Number (s)         Number (s)         Number (s)           1         18         No 10         YES 1X         Number (s)         Number (s)         Number (s)         Number (s)	OBPTG 05/01/16				PAGE #	1 OF 1
Image	GEAR CODE GEAR NUMBER(S)		NUMBER OF POTS		COMMENTS	
POT CHARACTERNITCS         INTRANCE         STEAMORE         STEAMORE <td>2 0 0 1, 2, 9, 10, 1</td> <td>3, 15-19, 21, 25, 28, 32-35, 37-40</td> <td>10</td> <td></td> <td></td> <td></td>	2 0 0 1, 2, 9, 10, 1	3, 15-19, 21, 25, 28, 32-35, 37-40	10			
Shape Code         05         Number         2         of High Flyer(s)         2         USD?         NO. 0         VES1 X           Side Construction         Inside Ring         Size         7.0         0         # d High Flyer(s)         2         USD?         NO. 0         VES1 X           Code         1         Size         7.0         0         # d High Flyer(s)         2         USD?         NO. 0         VES1 X           DMENSIONS         Location         0         Uscation         0         Size         2.X         Number         2           Top         48         26         Size         2.X         Statesc Line Longth (mg)         5         N         Type         0         Uscation         0         Uscation         0         Uscation         0         Uscation         0         0         0         Uscation         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0         0 <t< td=""><td>POT CHARACTERISTICS</td><td>ENTRANCE</td><td>SURFACE SYSTEMS</td><td>ANCHOR(S)</td><td></td><td></td></t<>	POT CHARACTERISTICS	ENTRANCE	SURFACE SYSTEMS	ANCHOR(S)		
Biole Contraction         Initial Ring         Initian Ring         Initial Ring         Initian<	Shape Code 05	Number <u>2</u> #	of High Flyer(s) 2	USED? NO 0 YES 1 X		
Code       1       Size       7.0       N       e of Buoys       2       Number       2         DIMENSIONS       Length (m)       Width (m)       Unknown       0       Top       1       Suface Line Length (ma)       5       N         Top       48       26       Side       2 X       Suface Line Length (ma)       5       N       Wight (rotat)       44       hts       A (E)         Bottom       48       32       Combination       8       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       Nonbar       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -	Side Construction	Inside Ring				
DIMENSIONS         Leargth (in)         Witch (in)         Leargth (in)         L	Code	Size <u>7.0</u> in #	of Buoys 2	Number <u>2</u>		
Length (in)       Unknown       0       Top       1       Surface Line Length (wg)       5       ft         Top       48       26       Side       2.X       Type Code       1         Bottom       48       32       Combination       3       Type Code       1         Height       18       0       Combination       5       1       Darester       5 / 8 in         GROUNDLINE       BIODEGRADABLE PANEL       Mark?       NO 0       YES 1 X       Darester       9         Type code       1       Attachment Type       Mark?       NO 0       YES 1 X       Darester       9         Diameter       3 / 8 in       Mark?       NO 0       YES 1 X       NocHOR LINE       Length of Line Btwn         Bit Prof. (mg)       1.8       Attachment Type       1       Number (tota)       5       NocHOR & Sangion (wrg)       10       It         Diameter       3 / 8 in       Degradeb Plasic       UsED?       NO 0       YES 1 X       NocHOR & Sangion (wrg)       10       It         UseD?       NO       YES       Softwood Line 3 X       UseD?       NO 0       YES 1 X       NochOR & Sangion (wrg)       10       It         Softwood	DIMENSIONS	Location		(circle one)		
Top       48       26       Solrace Line Length (avg)       5       1       Type         Bottom       48       32       Combination       8       Unknown       0       Daracter       1       Daracter       5       8       1       Dear Mark       Dear Mark       1       Dear Mark       No       VES       No	Length (in) Width (in)	Unknown 0		Weight (total) <u>44</u> lbs A E		
Top       48       26       Side       2 X         Bottom       48       32       Combination       8       1         Height       16       in       Combination       8       1         Height       16       in       Combination       8       0         GROUNDLINE       BIODEGRADABLE PANEL       Mark?       NO       VES 1 X         Bitw Pots (avg)       138       ft       USED?       NO       VES 1 X       USED NO       Nother (rotal)       10       It         Dameter       3 / 8 in       Inon Hog Rings       1       GANGIONS       Uncoated Wire       4       It ong Hog Rings       1       Binder       3 / 8 in         Number       3       Other       9       Type Code       1       Diameter       <		Top 1S	Surface Line Length (avg) 5 ft	Туре		
End       3       Type Code       1       Dandrift-style       1 X       DeadWeight       2         Height       18       in       Image: Combination       8       Other       9       Deameter       5 / 8 in       DeadWeight       2         GROUNDLNE       BIODEGRADABLE PANEL       Mark?       NO 0       YES 1 X       WEAK LINKS       NO       YES       AncHOR LINE         Length of Line       BioDeGradable FaneL       Mark?       NO 0       YES 1 X       UseDo NSURFACE? 0       1 X       AncHOR LINE         Diameter       3 / 8 in       Iton Hog Rings       1       GANGIONS       Anchor & Gangion (avg)       10       ft         Diameter       3 / 8 in       Iton Hog Rings       GANGIONS       Gangin (avg)       4       ft       Diameter       3 / 8 in         USED?       NO       YES       Softwood Lafte       3 X       Length (avg)       4       ft         USED?       O       YES       Softwood Lafte       3 X       Length (avg)       4       ft       Diameter       3 / 8 in       Length (avg)       10       ft         Uncosted Wire       4       Length (avg)       100       2       8 in       Diameter       3 / 8 in <t< td=""><td>Top <u>48 26</u></td><td>Side 2 <u>X</u></td><td></td><td>Unknown 0</td><td></td><td></td></t<>	Top <u>48 26</u>	Side 2 <u>X</u>		Unknown 0		
Bottom       48       32       Combination       8       Diameter       5 / 8 in       Deam degrad       De		End 3T	ype Code <u>1</u>	Danforth-style 1 X		
Other         9         Diameter         5 / 8 in         Combination         8         Other         9	Bottom <u>48</u> <u>32</u>	Combination 8		Dead Weight 2		
Height       18       in		Other 9	Diameter <u>5 / 8</u> in	Combination 8		
GROUNDLINE         BIODEGRADABLE PANEL         Mark?         NO 0 _ VES 1 X         NO 0 _ VES 1 X           Length of Line         Bitw Pots (avg) _ 138 _ ft         USED?         NO 0 _ VES 1 X         NO 0 _ VES 1 X         NO 0 _ VES 1 X           Type code	Height <u>18</u> in			Other 9		
Length of Line       WEAK LINKS       NO       YES       YEAK LINKS       NO       YES         BW Pots (avg)       138       ft       USED?       NO 0       YES 1 X       USEDON SURFACE? 0       1 X       ANCHOR LINE         Type code       1       Attachment Type       1 X       Number (total)       5       Length of Line Bhwn       Anchor & Gangion (avg)       10       ft         Diameter       3 / 8 in       Iron Hog Rings       1       GARGIONS       Type Code       1       Type Code       1         ESCAPE VENT       NO       YES       Softwood Lathe       3 X       UsED?       NO 0       YES 1 X       Type Code       1         Shape Code       01       X       Uncoated Wire       4       Length (avg)       4       ft       Diameter       3 / 8 in         Shape Code       01       X       Uncoated Wire       3 / 8 in       End       BUOYLINE       End       6 in Guowine(s)       2       Image: Combination Rise       Ft of Buoyline(s)       2       Image: Combination Rise       Ft of Buoyline(s)       2       Image: Combination Rise       Image: Combi	GROUNDLINE	BIODEGRADABLE PANEL	Mark? NO 0 YES 1 X			
Btw Pots (avg)       138       It       USED?       NO 0       YES 1       X       USED ON SURFACE? 0       1       X       ANCHOR LINE         Type code       1       Attachment Type       Unknown       0       Type Code       2       Anchor & Gangion (avg)       10       ft         Diameter       3 / 8 in       Iron Hog Rings       1       GANCIONS       USED?       NO 0       YES 1 X       Type Code       1       Type Code       1       Type Code       1       State for the paradable Plastic       2       USED?       NO 0       YES 1 X       Type Code       1       Diameter       3 / 8 in       Not Attached       Type Code       8       Type Code       1       Stiten       Stiten       Type Code       8       Not Attached       7       Percent of Type       67 % / 33	Length of Line	v	VEAK LINKS NO YES			
Type code       1       Attachment Type       Type Code       2       Attachment Type       Length of Line Btwn         Diameter       3 / 8 in       Iron Hog Rings       6ANGIONS       Type Code       1         ESCAPE VENT       NO       YES       Softwood Lathe       3 X       USED?       NO 0 _ YES 1 X       Type Code       1         Mumber       3       Uncoated Wire       4       Length (arg)       4       ft       Diameter       3 / 8 in         Number       3       Uncoated Wire       4       Length (arg)       4       ft       Diameter       3 / 8 in         Number       3       Uncoated Wire       4       Length (arg)       4       ft       Diameter       3 / 8 in         BAIT       BaIT       BUOYLINE       # of Buoyline(s)       2       Income of Type Code       1       Income of Type Code       1       Income of Type Code       1       Income of Type Code       100 ft       Income of Type Code       2       Income of Type Code       1       Income of Type Code       1       Income of Type Code       1       Income of Type Code       2       Income of Type Code       1       Income of Type Code       1       Income of Type Code       1       Income of Type Code       3 <td>Btw Pots (avg) <u>138</u>ft</td> <td>USED? NO 0 YES 1 X U</td> <td>JSED ON SURFACE? 0 1 <u>X</u> Jumber (total) 5</td> <td>ANCHOR LINE</td> <td></td> <td></td>	Btw Pots (avg) <u>138</u> ft	USED? NO 0 YES 1 X U	JSED ON SURFACE? 0 1 <u>X</u> Jumber (total) 5	ANCHOR LINE		
Diameter       3 / 8 in       Iron Hog Rings       1 GANGIONS         ESCAPE VENT       NO       YES       UseD?       NO       0 YES 1 X       Type Code       1         USED?       0 1 X       Uncoated Wire       4 Length (avg)       4 ft       Diameter       3 / 8 in         Number       3       Combination       8       Type Code       1       Diameter       3 / 8 in         Shape Code       01       Kitchen       BAIT       BUOYLINE       4 of Buoyline(s)       2       Compare 1 (avg)       100 ft         Height       1 . 8 in       Unknown       0 - Bait Bag       2 X       Type Code       8       Combination       8         York       1 . 1 . 8 in       Unknown       0 - Bait Bag       2 X       Type Code       8       Combination       9 - Code       8         York       1 . 1 . 8 in       Unknown       0 - Combination       Bait Bag       2 X       Type Code       8       67 % / 33 %       67 % / 33 %       67 % / 33 %       67 % / 33 %       9 - Diameter       5 / 8 in       Biodegraduate Escape Panel       Botograduate Escape Panel <td>Type code1</td> <td>Attachment Type Unknown 0T</td> <td>ype Code <u>2</u></td> <td>Length of Line Btwn Anchor &amp; Gangion (avg)<b>10</b>ft</td> <td></td> <td></td>	Type code1	Attachment Type Unknown 0T	ype Code <u>2</u>	Length of Line Btwn Anchor & Gangion (avg) <b>10</b> ft		
ESCAPE VENT       NO       YES       Softwood Lathe       3 X         USED?       0       1 X       Uncoated Wire       4       Length (avg)       4       ft         Number       3       3       Uncoated Wire       4       Length (avg)       4       ft         Shape Code       01       0       Diameter       3 / 8 in       0         Height       1       8       in       BAIT       BUOYLINE       2         Height       1       8 in       Unknown       0       Length (avg)       100       ft         Location       String       1       Bait Bag       2 X       Type Code       8       7         Side       2       Not Attached       7       Percent of Type       67 % / 33 %       Gombination       Bottom       Length       End       3       Combination       8       Gombination       67 % / 33 %       Diameter       5 / 8 in       Bottom       Bottom       Bottom       Length       End       3       Combination       8       Combination       B       Gombination       B       Gombination       End       67 % / 33 %       Bottom       Bottom       Length       Endengradable       Endengradable       Le	Diameter <u>3 / 8</u> in	Iron Hog Rings 1 G Degradable Plastic 2 U	GANGIONS JSED? NO 0 YES 1 X	Type Code 1		
USED? 0 1 X Uncoated Wire 4 Length (avg) 4 ft Combination 8 Other 9 Type Code 1 Barr 9 Type Code 1 Diameter 3 / 8 in Barr BuoYLINE Height 1 . 8 in Unknown 0 Length (avg) 100 ft String 1 Type Code 8 Height 0 Katached 7 Percent of Type 67 % / 33 % Side 2 1 Combination 8 Other 9 Diameter 5 / 8 in Unknown 0 Length (avg) 100 ft String 1 Ftype Code 8 Type Code 8 Height 0 Katached 7 Percent of Type 67 % / 33 % Side 2 1 Combination 8 Other 9 Diameter 5 / 8 in	ESCAPE VENT NO YES	Softwood Lathe 3 X				
Number     3     Other     9     Type Code     1       Shape Code     01     Diameter     3 / 8 in       BAIT     BUOYLINE # of Buoyline(s)     2       Height     1 . 8 in     Unknown     0       Location     String     1       Unknown     0     Bait Bag     2 X       Top     1 X     Metal Ring     3       Side     2     Freecent of Type     67 % / 33 %       Combination     8     Other     9       Other     9     Diameter     5 / 8 in	USED? 0 1 <u>X</u>	Uncoated Wire 4 L	ength (avg) 4 ft	Diameter <u>3 / 8</u> in		
Shape Code       01       Diameter       3 / 8 in       RECTANGULAR LOBSTER TRAP         Shape Code       01       Diameter       3 / 8 in       RECTANGULAR LOBSTER TRAP         Length       5 . 8 in       BAIT       BUOYLINE	Number 3	Other 9 T	ype Code 1			
Shape Code       01       Diameter       3 / 8 in       WIRE CONSTRUCTION         Length       5 . 8 in       METHOD       # of Buoyline(s)       2         Height       1 . 8 in       Unknown       0       Length (avg)       100 ft         Location       String       1       1       Bait Bag       2 X         Unknown       0       Bait Bag       2 X       Type Code       8         Top       1 X       Metal Ring       3       Percent of Type       67 % / 33 %         Side       2       Not Attached       7       Percent of Type       67 % / 33 %         End       3       Combination       6       (sinking/floating)       Bottom       Bottom         Other       9       Diameter       5 / 8 in       Bottom       Biodegradable       Ecoape				RECTANGULA	R LOBSTER TR/	4P
Bair       BUOYLINE         Height       1       8 in       METHOD       # of Buoyline(s)       2         Height       1       8 in       Unknown       0       Length (avg)       100       ft         Location       String       1       -       -       -       -       -         Unknown       0       Bait Bag       2 X       Type Code       8       -       -         Top       1 X       Metal Ring       3       -       -       -       -       -         Side       2       Not Attached       7       Percent of Type       67 % / 33 %       -       -       -       -       -       -       -         Combination       8       (sinking/floating)       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       -       - </td <td>Shape Code 01</td> <td></td> <td>Diameter <u>3</u> / 8 in</td> <td>WIRE CON</td> <td>STRUCTION</td> <td></td>	Shape Code 01		Diameter <u>3</u> / 8 in	WIRE CON	STRUCTION	
Length       5       8       METHOD       # of Buoyline(s)       2         Height       1       8       Increase       Unknown       Length (avg)       100       ft         Location       String       1       Length (avg)       100       ft         Unknown       0       Bait Bag       2 X       Type Code       8         Top       1 X       Metal Ring       3       Percent of Type       67 % / 33 %       Bottom         Side       2       Not Attached       7       Percent of Type       67 % / 33 %       Bottom         Combination       8       Other       9       Diameter       5 / 8 in       Bottom         Other       9       Combination       8       Other       9       Diameter       5 / 8 in		BAIT			Kitchen	
Height       1       8       Instruction       Unknown       0       Length (avg)       100       ft         Location       String       1	Length <u>5.8</u> in	METHOD #	of Buoyline(s) 2		Bait Bag	
Location       String       1       Image: Construction of the string	Height <b>1.8</b> in	Unknown 0 L	ength (avg) 100 ft	Top Length	Wid	
Unknown       0_       Bait Bag       2 X       Type Code       8         Top       1 X       Metal Ring       3       Metal Ring       3         Side       2_       Not Attached       7       Percent of Type       67 % / 33 %         End       3_       Combination       8       (sinking/floating)         Combination       8       Other       9       Diameter       5 / 8 in         Other       9_       Image: Construction of the state of	Location	String 1	<u></u>			
Top       1 X       Metal Ring       3         Side       2       Not Attached       7       Percent of Type       67 % / 33 %         End       3       Combination       8       (sinking/floating)         Combination       8       Other       9       Diameter       5 / 8 in         Other       9       Image: Single S	Unknown 0	Bait Bag 2 X T	ype Code 8			Height
Side     2     Not Attached     7     Percent of Type     67 % / 33 %       End     3     Combination     6     Combination     Bottom       Combination     8     Other     9     Diameter     5 / 8 in       Other     9     Diameter     5 / 8 in     Biodegradable	Top 1 X	Metal Ring 3				
End     3_     Combination     8_     (sinking/floating)       Combination     8_     Other     9_       Other     9_	Side 2	Not Attached 7 P	Percent of Type <u>67 % / 3</u> 3 %			
Combination     8_     Other     9_     Diameter     5 / 8 in     Width       Other     9_	End 3	Combination 8 (	sinking/floating)	Bottom	Bottom Length	
Other 9Biodegradable Escape Panel Vent	Combination 8	Other 9	Diameter <u>5 / 8</u> in	Width	au	
	Other 9			Biodegra Pane	adable Escape I Vent	
Mark? NO 0 YES 1 X Parlor		N	Mark? NO 0 YES 1 X	Parlor		

				OBS/TRIP ID	
				DATE LANDED mm/yy	/
				PAGE #	OF
	DIAGRAM FOR REFERENCE C	DNLY	ADDITIONAL COMMENTS		
Surface System High Flyer Dist Btwn Dist Btwn Gang Anchor Line	Water Line Water Line Groundline Distance Btwn Pots ke (Original image modified to include additional infor	anton)			
	SHAPE CODES:	SIDE CONSTRUCTION CODES:	LINE / GANGION TYPE CODES:	WEAK LINK TYPE CODES:	
	00 = Unknown	0 = Unknown	0 = Unknown	0 = Unknown	
	01 = Rectangular	1 = Wood Lathe	1 = Sinking / Neutrally Buoyant	1 = Rope of Appropriate Breaking	strength
	02 = Round / Oval	2 = Plastic Coated Wire	2 = Floating	2 = Off the Shelf	
	03 = 1/2 Round	3 = Twine Mesh	8 = Combination	3 = Overhand Knot	
	04 = Cone	4 = Plastic Mesh	9 = Other	4 = Hog Rings	
	05 = Trapezoid	8 = Combination		8 = Combination	
	99 = Other	9 = Other		9 = Other	
FOR OFFICE USE ONLY					

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Soak Duration	Obtain from captain if set is not	Hours, to the	Dash.
		witnessed.	nearest tenth	Leave blank if set is
				witnessed (fill in Set
				Begin/End times).
2	Number of Pots Set	Should agree with total Number of	Whole number	Dash.
		pots on Lobster, Crab, and Fish Pot		
		Gear Characteristics Log.		
3	Number of Pots Hauled	Visually confirm.	Whole number	Dash.
			Rounded up	
4	Number of Pots Lost	Should be Number of Pots Set minus	Whole number	Dash.
		Number of Pots Hauled; comment if		
		different.		
5	Pounds of Bait	Obtain from captain.	Whole pounds	Dash.
		Record for the two most used bait		
		types by weight. Comment on any		
		additional baits used.		
6	Kind of Bait	Obtain from captain.	2-digit code	"00".
		Record for the two most used bait		
		types by weight. Comment on any		
		additional baits used.		
		See Appendix P1 – Bait Kind Codes		
7	Type of Bait	Obtain from captain.	1-digit code	"0".
		Record for the two most used bait		
		types by weight. Comment on any		
		additional baits used.		
		See Appendix P2 – Bait Type Codes		
8	Condition of Bait	Obtain from captain.	1-digit code	"0".
		Record for the two most used bait		
		types by weight. Comment on any		
		additional baits used.		
		See Appendix P3 – Bait Condition		
		Codes		
9	Set Method	Obtain from captain.	Check one	"00".
		Describe "Other" on line 9A.		

## Lobster, Crab, and Fish Pot Haul Log

NMFS FISHERES OBSERVER PROGRAM         DATE LAND (mmy)         B	LOBSTE	R. CI	RAB. a	& FI	SH PC	ΟΤ ΗΑΙ												OBS/ TH			Δ			
OBJECT         OBJECT         OVERATION         PARKET         C         O         O           GRANCOLD         GR	NMFS FIS	SHE	RIES (	OBS	ERVE		OGRAM											DATEL	AND (mm/)	<i>w</i> )	В	/		
GRAR CODE         D         GRAR CODE         D         GRAR CODE         D         VEATHER CODE	OBPTH	OBH	IAU	OBS	SPP 0	)5/01/1	6											PAGE #		,,,,	- C	OF		
Image: No. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.	GEAR CODE	D	GEAR #	Е	HAUL #	F	HAUL OB	S? OI	N-EFFORT?	CATC	H?	INC TAKE?	WEATHER	CODE			WIND		WAVE HE		EPTH.	GEAR	COND CODE	
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Image: 1     Image							YES 1	YE	ES 1	YES 1		YES 1	-	к		L	_	M o	N		0		Р	
										-			-				kn			ft	fm			
	SET INFO	DAT	E	AND	) TI	ME			LATITUD	E / LONG	ITUDE (I	DD MM.M) - LOR	AN (XXXXX)		ES	TIMATED	)	TARGET SF	ECIES			CODE(	S)	
S BECIN       Q       R       9800                                                                                                             <		mm/	dd/yy		24 hours	5	Station 1	Latitu	ide / Bearing	1		Station 2	Longitude / Be	aring	sc	DAK DUR	ATION							
E         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         ///         //         //	S BEGIN	Q			R		9960 -					9960 -						U				v		
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SPECIES         SUB- SAMPLE         <																		Unknown	0(	n	Visual	05		
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SPECIES         SUB- ESTIMATION NAME         SUB- ESTIMATION CODE         SUB- ESTIMATION METHOD         SPECIES         SUB- SUB- SUB- SUB- SUB- SUB- SUB- SUB-																		Bottom Cont	tours 02	2	Other	99		
SPECIES         Sup- version         Sup- version         Sup- version         Version         Sup- version         Sup- version     <																		Compass/Lo	oran 03	3				
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o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o       o	c												10											
7	0							·•	-				16						·					
	7												17											
	<u>.</u>							·																
9	8												18											
9 19	-																							
	9												19											
10 20	10							·					20											

LOBSTEF	R, CRAB,	& FI	<b>SH POT</b>	HAU	DBSTER, CRAB, & FISH POT HAUL LOG OBS/ TRIP ID A99025-											RIP ID			A9902	
NMFS FIS	<b>SHERIES</b>	OBS	ERVER	PRO	GRAM										DATE L	AND (mm	/yy)	06	/	16
OBPTH (	OBHAU	OBS	SPP 05/	/01/1	6										PAGE #			1	OF 3	]
GEAR CODE	GEAR #	#	HAUL #		HAUL OBS	5? ON	I-EFFORT?	CATCH	1?	INC TAKE?	WEATHER	CODE		WIND		WAVE H	IEIGHT	DEPTH,	GEAR (	COND CODE
		•	0 1	2	NO 0	NC	0 0	NO 0		NO 0 <u>X</u>	_		SPEED	E	DIRECTION			HAUL BEGIN		
	′」   L'L	3		3	YES 1		S1 <u>X</u>	YES 1	<u> </u>	YES 1	-	•		<b>F</b> 1	0		2 "	400 (***		44.0
SET INFO	DATE	ΑΝΓ		=			LATITUD	E / LONGI	TUDE (C			2	EST	MATED	TARGET SE	PECIES	- n	122 10	CODE	410 S)
	mm/dd/yy		24 hours		Station 1	Latitu	de / Bearing			Station 2	Longitude / Bea	ring	SOA	SOAK DURATION					(	-,
S BEGIN					9960 -					9960 -					America	an Lobste	er			
E	/ /	/	:																	
T END	1	,	<u>.</u>		9960 -				:	9960 -				169.0 br	NUMBER O	F POTS	BAIT			
HAUL INFO	/ /	/	:										WA	TER TEMP	SET	40	IBS	KIND	TYPE	
H BEGIN					0060					2060							200			00112
A	06/19/	/ 16	21 :	52	9900 -		41 °	32.3		9900 -	69 °	35.8		0	HAULED	40	#1 <b>150</b>	05	2	3
U END					9960 -			~~ -	:	9960 -										
	06/19/	/ 16	23 :	21			41 °	32.7			69 °	35.5	-	<u>58.0</u>			#2 <u>150</u>	03		
COMMENTS															SEIMEIHO	סט				
															Unknown	(	00	Visual	05	
															Temperature	e (	01	Mixed	98	
															Bottom Cont	iours (	)2	Other	99	
															Compass/Lo	oran (	03 X			
												SAMPLE W	EIGHT M	ULTIPLIER	Tide/Current	: (	04			
													-							
	S	SPECIE	ES							WEIGHT			SPECIE	S					١	VEIGHT
						SUB-				ESTIMATION						SUB-	_	DICD		ESTIMATION
	NAM	1E			CODE	WEIGHT	POUNDS	CODE	D/R	CODE		NA	ME		CODE	WEIGH	T POUN	DISP DS CODE	D/R	CODE
1 Ameri	can Lobste	r				·	75	100	R	01	11					·				
a Amari	oon Lohoto	-					1	022	Б	01	10									
2 Ameri		1				<u> </u>		022	ĸ	01	12					·•				
3 Ameri	can Lobste	r					3	012	R	01	13									
4 Jonah	Crab					<u> </u>	80	100	R	01	14					·				<u>                                     </u>
6 Blook	Whiting						22	170	Б	01	45									
DIACK	winning					<u> </u>		170	ĸ	VI	15					·				
6 Jonah	Crab						9	001	R	01	16									
7						<u> </u>					17					·				
<u>_</u>											10									
0	3									10										
9											19									
10											20					·				

### **Bottom Trawl Gear Characteristics Log**

If two or more *identical* gears are used, assign each gear its own gear number and record them on separate <u>Bottom Trawl</u> <u>Gear Characteristics Log</u>s with 10 random codend mesh size measurements and 10 random liner mesh measurements (if present) collected for each codend/liner.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1*	Gear Number	Unique identifier for each trawl net.	2-digit code	Cannot be unknown.
2*	Net Name	Obtain from captain.	N/A	Record "Unknown".
		See Appendix O1 – Net Name Codes		
3*	Net Type	Obtain from captain.	N/A	Record "Unknown".
		See Appendix O2 – Net Type.		
4	Net Builder	Obtain from captain.	N/A	Record "Unknown".
		See Appendix O3 – Net Builder .		
5*	Liner Used?	Yes/No.	Check one	"9".
6	Doors Used?	Yes/No.	Check one	"9".
7	Weight of one door	Obtain from captain.	Whole	Dash.
		Total weight of one door.	kilograms	
8	Net Body Construction	Obtain from captain ⁷ .	Check one	"00".
	Material	Describe "Other" or "Combination"		
		on line 8A.		
9	Codend Construction	Obtain from captain. ⁷	Check one	"00".
	Material	Describe "Other" or "Combination"		
		on line 9A.		
10	Liner Construction	Obtain from captain. ⁷	Check one	"00".
	Material	Describe "Other" or "Combination"		Leave blank if Liner
		on line 10A.		used? = "No".
11	Kites Used?	Yes/No.	Check one	"9".
		The bag that holds the gear mounted		
		electronics is <b>not</b> considered a kite.		
12	Number of Kites	Count or obtain from captain.	Whole number	Dash.
				Leave blank is Kites
-				Used? = "No".
13	Kite Width	Obtain from captain.	Whole inches	Dash.
				Leave blank is Kites
				Used? = "No".
14	Kite Length	Obtain from captain.	Whole inches	Dash.
				Leave blank is Kites
				Used? = "No".
15	Fishing Circle Number of Meshes	Obtain from captain.	Whole number	Dash.
16	Fishing Circle Mesh Size	Obtain from captain.	Inches. to the	Dash.
			nearest tenth	
17	Head Rope Length	Obtain from captain.	Whole feet	Dash.
18	Footrope/Sweep Length	Obtain from captain.	Whole feet	Dash.
19	Ground Cable Length	Obtain from captain.	Whole	Dash.
			fathoms	
20	Bridle Length	Obtain from captain.	Whole	Dash.
			fathoms	
21	Strengthener Used?	Yes/No.	Check one	"9".

⁷ Dyneema[®] should be marked as Spectra[®] (04).

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
22	Chafing Gear Used?	Yes/No.	Check one	"9".
23	Ground Cable Ground	Visually confirm ⁸ .	Check one	"00".
	Gear	Describe "Other" on line 23A.		
24	Bridle/Leg Ground Gear	Visually confirm ⁸ .	Check one	"00".
		Describe "Other" on line 24A.		
25	Sweep Ground Gear	Visually confirm ⁸ .	Check one	"00".
		Describe "Other" on line 25A.		
26	Sweep Gear Number	Count or obtain from captain.	Whole number	Dash.
		Total number of largest piece of gear		Dash if largest piece of
		on sweep.		sweep gear is chain or
27	Swoon Coor Diamotor	Maacura or obtain from contain	Whole inches	Cable.
21	Sweep Gear Diameter	Diameter of the largest piece of gear	whole inches	Dash if largest niece of
		present on the sweep		sween gear is chain or
				cable.
28	Floats Numbers	Count or obtain from captain.	Whole number	Dash.
29	Float Diameter	Measure or obtain from captain.	Whole inches	Dash.
		Record diameter of majority of floats.		
30*	Codend Hung	Visually confirm.	Check one	"0".
31*	Liner Hung	Visually confirm.	Check one	"0".
				Leave blank if no liner
				used.
32*	Codend	Visually confirm.	Check one	"0".
20*	Twine Type	Visually confirm	Chack and	"0"
55	Liner rwine rype		Check one	U.
				used
34*	Codend Mesh Size	Measure with calipers.	Whole	Dash.
			millimeters	
35*	Liner Mesh Size	Measure with calipers.	Whole	Dash.
			millimeters	Leave blank if no liner
				used.
36	Gear Mounted	Yes/No.	Check one	"9".
	Electronics Used?			
37	Gear Mounted	Obtain from captain.	Whole number	Dash.
	transducars			
20	Gear Mounted	Obtain from cantain	Check one	"∩"
50	Electronics Type		CHECK ONE	0.
39	Gear Mounted	Obtain from captain.	Check one	"0".
	Electronics Brand	Describe "Other" or "Combination"		
		on line 39A.		
40	Gear Mounted	Obtain from captain.	Check all that	"0".
	Electronics Location	Describe "Other" on line 40A.	apply	
41*	Excluder/Separator	Visually confirm.	Check one	"9".
	Device Used?			
42	Excluder/Separator	Visually confirm.	2-digit code	"00".
	Device Type Code			

⁸ Note: If more than one type of gear is used on a ground gear piece, record the type of gear with the LARGEST diameter. This is not always the longest piece.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
43	T.E.D. Extension Mesh	Measure with calipers or obtain from	Inches, to the	Dash.
	Size	captain.	nearest tenth	
44	T.E.D. Extension A/E	Actual (measured) or Estimated	Check one	"0".
		(captain provided).		
45*	Escape Outlet Used	Yes/No.	Check one	"9".
46	Escape Outlet Type	Visually confirm.	Check one	"0".
		Describe "Other" on line 46A.		
47	Escape Outlet Mesh Size	Obtain from captain.	Whole inches	Dash.
48	Escape Outlet Length	Obtain from captain.	Whole number	Dash.
	Number of Meshes	Counted from the front of the net		Fill out either number
		towards the codend.		of meshes or outlet
		Triangular outlet: front to back.		dimensions.
		Trapezoid outlet: longer length.		
49	Escape Outlet Width	Obtain from captain.	Whole number	Dash.
	Number of Meshes	Counted from side to side of the net.		Fill out either number
		T.E.D. outlet: leading edge of opening.		of meshes or outlet
		Triangular outlet: side to side.		dimensions.
		Trapezoid outlet: wider width.		
50	Escape Outlet Length	Obtain from captain.	Whole inches	Dash.
		Measured from the front of the net		Fill out either number
		towards the codend.		of meshes or outlet
		Triangular outlet: front to back.		dimensions.
		Trapezoid outlet: longer length.		
51	Escape Outlet Width	Obtain from captain.	Whole inches	Dash.
		Measured from side to side of the		Fill out either number
		net.		of meshes or outlet
		T.E.D. outlet: leading edge of opening.		dimensions.
		Triangular outlet: side to side.		
		Trapezoid outlet: wider width.		
52	Escape Outlet Shape	Visually confirm.	2-digit code	"00".
	Type Code		-	
53	Escape Outlet Location	Visually confirm.	2-digit code	"0".
	Type Code			

BOTTOM TRAV	DTTOM TRAWL GEAR CHARACTERISTICS LOG OBS/TRIP ID A									
NMFS FISHERI	ES OBSERVE	R PROGRAM				DATE LA	NDED mm/yy <b>B</b> /			
<b>OBOTG 05/0</b>	1/16					PAGE #	C OF			
GEAR CODE D	GEAR NUMBER	NET NAME	NET TYPE	NET BUILDER	CODEND/LINER	GEAR MOUNTED	EXCLUDER/SEPARATOR DEVICE			
	1	2	3	4	HUNG CODEND LINER	ELECTRONICS	41			
					30 31		USED? NO 0 YES 1			
					Unknown 0	USED ? 36				
LINER USED?	CONSTRUCTION M	ATERIAL 8	LENGTH MEASU	JREMENTS	Diamond 1	NO 0				
NO 0 5	TYPE NE	T BODY CODEND LIN	ER		Square 2	YES 1	Type Code 42			
YES 1	Unknown 00	8 9 10	Headrope	<b>17</b> ft	Square, wrapped 3					
	Nvlon 01				Combination 8	NUMBER OF				
DOORS USED?	Polv 02		Footrope/Sweep	<b>18</b> ft		TRANSDUCERS	T.E.D. EXTENSION			
	Kevlar® 03				TWINE TYPE CODEND LINER	37	43			
NO 0 <b>6</b>	Spectra® 04		Ground Cable	<b>19</b> fm	32 33		Mesh Size . in			
YES 1	Tenex® 05				Unknown 0					
	Nomex® 06		Bridle	<b>20</b> fm	Single 1	TYPE <b>38</b>	(circle one) A / E 44			
WEIGHT OF ONE	Combination 98		STRENGTHENE	R USED? 21	Double 2	Unknown 0	ESCAPE OUTLET			
DOOR	Other 99				Single on Top/	Wired 1	45			
7	8A	9A10/	NO 0	YES 1	Double on Bottom3	Wireless 2	USED? NO 0 YES 1			
kg					 Other 9	Both 3				
KITE PANEL		FISHING CIRCLE								
KITE USED?			CHAFING GEAR	USED? 22	CODEND MESH SIZE	BRAND 39	TYPE <b>46</b>			
11 Numbe	er <b>12</b>	# MESHES 15			34	Unknown 0	Unknown 0			
NO 0 Width	in		NO 0	YES 1	mm mm	Furuno® 1	Panel 1			
YES 1 Length	in	MESH SIZE 16	in			Simrad® 2	Opening 2			
COMMENTS		GROUND GEAR	23 24	25	mmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmmm_mm_mm_	Northstar Tech 3	Single Flap 3			
		TYPE GRO	UND CABLE BRIDL	_E/ LEG SWEEP		Notus 4	Double Flap 4			
		Unknown	00		mm mm	Marport 5	Other 9			
		Chain	01			Scanmar 6				
		Cable / Wire	02		mm mm	Combination 8	46A			
		Wrapped Cable	03			Other 9				
		Rock Hopper	04		mm mm					
		Roller	05			39A	MESH SIZE 47 in			
		Rubber Cookie	06		LINER MESH SIZE					
		Bobbin	07		35	LOCATION 40	LENGTH			
		Plate Gear	08		mm mm	(check all that apply)	# MESHES <b>48</b> OR <b>49</b> in			
		None	98							
		Other	99		mm mm	Unknown 0 🗌	WIDTH			
			23A 24	A 25A		Headrope 1	# MESHES 50 OR 51 in			
					mm mm	Wings 2 🗌				
		SWEEP GEAR	FLOA	TS		Footrope 3				
		Number 2	6 Numb	er <b>28</b>	mm mm	Door 5 🗌	SHAPE Type Code 52			
			— I			Codend 6				
		Diameter 2	7 in Diame	eter 29 in	mm mm	Other 9	LOCATION Type Code 53			
						40A				

BOTTOM TRAN	NL GEAR CH		DG			OBS/TR	IP ID	A99006-
NMFS FISHER	IES OBSERV	ER PROGRAM				DATE L	ANDED mm/yy	10 / 16
OBOTG 05/0	1/16					PAGE #		1 OF 1
GEAR CODE	GEAR NUMBER	NET NAME	NET TYPE	NET BUILDER	CODEND/LINER	GEAR MOUNTED	EXCLUDER/SEI	PARATOR DEVICE
0 5 0	1	Bottom Trawl	2 Seam Flounder Net	Northeastern Trawl Systems, Inc	HUNG CODEND LINER	ELECTRONICS	USED? NO 0	YES 1 <u>X</u>
LINER USED?	CONSTRUCTION	MATERIAL	LENGTH MEASU	JREMENTS	Diamond 1	NO 0		
NO 0 <b>X</b>	TYPE I	NET BODY CODEND LI	NER		Square 2 _X	YES 1 X	Type Code	08
YES 1	Unknown 00		Headrope	<b>60</b> ft	Square, wrapped 3			
	Nylon 01				Combination 8	NUMBER OF		
DOORS USED?	Poly 02	<u>X X</u>	Footrope/Sweep	<b>72</b> ft		TRANSDUCERS	T.E.D. EXTENSI	ON
	Kevlar® 03		_		TWINE TYPE CODEND LINER			
NO 0	Spectra® 04		Ground Cable	<b>30</b> fm		2	Mesh Size	• in
YES 1 <u>X</u>	Tenex® 05		_		Unknown 0			
	Nomex® 06		Bridle	<b>8</b> fm	Single 1	TYPE	(circle one) A	/ E
WEIGHT OF ONE	Combination 98		STRENGTHENE	R USED?	Double 2 _X	Unknown 0	ESCAPE OUTLI	ET
DOOR	Other 99		-		Single on Top/	Wired 1		
			NO 0 X	YES 1	Double on Bottom 3	Wireless 2 X	USED? NO 0	YES 1 X
900kg					Other 9	Both 3		
		FISHING CIRCLE						
KITE USED?	or <b>3</b>	"MEOLIEO <b>490</b>	CHAFING GEAR	USED?	CODEND MESH SIZE	BRAND	TYPE	0
NO 0 Width	اط ع0 نه	# MESHES400	NO 0		161	Unknown 0	Unknown	0
VES 1 X Length	39iii		in NO U	YEST <u>A</u>	101 mm 100 mm	Furuno® 1	Panel	
	·39		in			Simrade 2 A	Opening Single Flap	2 2
COMMENTS				E/LEG SWEEP	<u>102</u> mm <u>103</u> mm	Notus 4	Double Flap	3 <u></u>
Doors are 1980	) lbs each.	Unknown			158 mm 162 mm	Marport 5	Other	4 9
		Chain	01			Scanmar 6		°
		Cable / Wire	02 X		157 mm 164 mm	Combination 8		
		Wrapped Cable	03			Other 9		
		Rock Hopper	04		163 mm 157 mm			
		Roller	05				MESH SIZE	<b>12</b> in
		Rubber Cookie	06	x x	LINER MESH SIZE			
		Bobbin	07			LOCATION	LENGTH	
		Plate Gear	08		mm mm	(check all that apply)	# MESHES	<b>10</b> OR in
		None	98					
		Other	99		mmmm	Unknown 0	WIDTH	
						Headrope 1	# MESHES	60 OR in
			·		mmmm	Wings 2		
		SWEEP GEAR	FLOA	TS		Footrope 3		
		Number 3	0 Numb	er <b>15</b>	mmmm	Door 5 🗴	SHAPE Type Co	de 05
						Codend 6		
		Diameter 1	6 in Diame	eter <u>8</u> in	mmmm	Other 9	LOCATION Type	e Code 1

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

	BOTTOM TRAWL GEAR LOG (FRONT) OBS/TRIPID A							
NMFS FISHERIES AT-SEA	MONITO	RING PROGRAM		DATE LANDED	mm/yy <b>B</b>			
ASMOTG 05/01/16				PAGE #	<b>C</b> of			
GEAR CODE GEAR #	NET NAM	IE	NET TYPE					
		2	3					
CODEND LINER ?	5	EXCLUDER/ SEPA	RATOR? 41	ESCAPE OU	TLET? 45			
Y 🗆 N		Υ□	N 🗌	Y 🗆	N 🗆			
CODEND			LINER					
CODEND HUNG	30	CODEND MESH	LINER HUNG	31	LINER MESH			
UNKNOWN		MEASUREMENTS	UNKNOWN		MEASUREMENTS			
DIAMOND		mm	DIAMOND		mm			
SQUARE		mm	SQUARE		mm			
SQUARE WRAPPED		mm	SQUARE WI	RAPPED	mm			
COMBINATION		mm	COMBINATIO	ON 🗌	mm			
CODEND TWINE	32	mm	LINER TWINE	33	mm			
UNKNOWN		mm	UNKNOWN		mm			
SINGLE		mm	SINGLE		mm			
DOUBLE		mm	DOUBLE		mm			
TOP SINGLE/	_	mm	TOP SINGLE	=/	mm			
BOTTOM DOUBLE		mm	BOTTOM DC	JUBLE	mm			
		34	OTHER		35			
GEAR CODE GEAR # NET NAME NET TYPE								
GEAR CODE GEAR #	NET NAM	E	NET TYPE					
GEAR CODE GEAR #	NET NAM	E	NET TYPE					
GEAR CODE GEAR #	NET NAM	EXCLUDER/ SEPA	NET TYPE	ESCAPE OU	TLET?			
GEAR CODE GEAR #		EXCLUDER/ SEPA	NET TYPE RATOR?	ESCAPE OU Y	TLET?			
GEAR CODE GEAR #		E EXCLUDER/ SEPA Y 🗌	NET TYPE RATOR? N 🗌 LINER	ESCAPE OU Y	TLET?			
GEAR CODE GEAR #		E EXCLUDER/ SEPA Y CODEND MESH	NET TYPE RATOR? N 🗌 LINER HUNG	ESCAPE OU Y				
GEAR CODE GEAR #		E EXCLUDER/ SEPA Y CODEND MESH MEASUREMENTS	NET TYPE RATOR? N 🗌 LINER LINER HUNG UNKNOWN	ESCAPE OU Y	TLET? N 🗌 LINER MESH MEASUREMENTS			
GEAR CODE GEAR # CODEND LINER ? Y		E EXCLUDER/ SEPA Y CODEND MESH MEASUREMENTS mm	NET TYPE IRATOR? N LINER LINER HUNG UNKNOWN DIAMOND	ESCAPE OU Y	TLET? N  LINER MESH MEASUREMENTS			
GEAR CODE GEAR # CODEND LINER ? Y		E EXCLUDER/ SEPA Y CODEND MESH MEASUREMENTS mm	NET TYPE RATOR? N LINER LINER HUNG UNKNOWN DIAMOND SQUARE	ESCAPE OU Y	TLET? N  LINER MESH MEASUREMENTS mm			
GEAR CODE GEAR # CODEND LINER ? Y		E EXCLUDER/ SEPA Y CODEND MESH MEASUREMENTSmmmmmm	NET TYPE IRATOR? N LINER LINER HUNG UNKNOWN DIAMOND SQUARE SQUARE WI	ESCAPE OU Y	TLET? N  LINER MESH MEASUREMENTS			
GEAR CODE GEAR # CODEND LINER ? Y		E EXCLUDER/ SEPA Y CODEND MESH MEASUREMENTS mm mm mm	NET TYPE RATOR? N LINER LINER HUNG UNKNOWN DIAMOND SQUARE SQUARE SQUARE WI COMBINATI	ESCAPE OU Y	TLET? N  LINER MESH MEASUREMENTS mm mm mm			
GEAR CODE GEAR # GEAR CODE GEAR # CODEND LINER ? Y		E EXCLUDER/ SEPA Y CODEND MESH MEASUREMENTSmmmmmmmm	NET TYPE IRATOR? N LINER LINER HUNG UNKNOWN DIAMOND SQUARE SQUARE SQUARE WI COMBINATIU LINER TWINE	ESCAPE OU Y RAPPED ON	TLET? N  LINER MESH MEASUREMENTSmmmmmmmm			
GEAR CODE GEAR # CODEND LINER ? Y		E EXCLUDER/ SEPA Y CODEND MESH MEASUREMENTSmmmmmmmmmm	NET TYPE RATOR? N LINER LINER HUNG UNKNOWN DIAMOND SQUARE SQUARE SQUARE WI COMBINATION LINER TWINE UNKNOWN	ESCAPE OU Y	TLET? N  LINER MESH MEASUREMENTSmmmmmmmmmm			
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GEAR CODE GEAR # CODEND LINER ? Y N CODEND LINER ? Y N CODEND HUNG UNKNOWN DIAMOND SQUARE SQUARE SQUARE WRAPPED COMBINATION CODEND TWINE UNKNOWN SINGLE DOUBLE		E EXCLUDER/ SEPA Y CODEND MESH MEASUREMENTSmmmmmmmmmmmmmmmm	NET TYPE RATOR? N LINER LINER HUNG UNKNOWN DIAMOND SQUARE SQUARE SQUARE SQUARE SQUARE UNKNOWN SINGLE DOUBLE	ESCAPE OU Y	TLET? N  LINER MESH MEASUREMENTSmmmmmmmmmmmmmmmm			
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BOTTOM TRAWL GEAR LOG (FR	ONT)		OBS/TRIPID		A99006-			
NMFS FISHERIES AT-SEA MONIT	ORING PROGRAM		DATE LANDE	D mm/yy	10 /16			
ASMOTG 05/01/16			PAGE #		_ <b>1</b> of _ <b>1</b> _			
GEAR CODE GEAR # NET NA	ME	NET TYPE						
Bottom	Trawl	2-Seam F	latfish Net					
	-							
CODEND LINER ?	EXCLUDER/ SEPA	RATOR?	ESCAPE O	UTLET?				
Y 🗌 N 🗷	Υ□	N 🛛	Y 🗌	N	X			
CODEND		LINER						
CODEND HUNG	CODEND MESH	LINER HUNG		LINER	MESH			
	MEASUREMENTS	UNKNOWN		MEAS	UREMENTS			
DIAMOND 🗌	<u>158</u> mm				mm			
SQUARE 🔏	<u>163</u> mm	SQUARE			mm			
SQUARE WRAPPED	<u>160 mm</u>	SQUARE W	RAPPED		mm			
	<u>158</u> mm	COMBINATI	ON 🗌	<u> </u>	mm			
	<u>160</u> mm	LINER TWINE	_	.	mm			
	<u>158</u> mm	UNKNOWN			mm			
SINGLE X	<u>157</u> mm	SINGLE			mm			
	<u>163</u> mm	DOUBLE			mm			
TOP SINGLE/	<u>164</u> mm	TOP SINGLE	=/	.	mm			
	<u> </u>	BOTTOM DO			mm			
		OTHER						
	NE							
	EXCLUDER/ SEPA		ESCAPE O					
				S. L. L. I. : NI				
				IN				
	CODEND MESH				MESH			
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	mm				''''''' mm			
	mm	SINGLE			' mm			
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	mm	BOTTOM			' mm			
		OTHER						
		UTIEN						
	COMMENTS							

BOTTOM TRAWL GEAR LOG (BA	(CK)		OBS/TRIPIC	)	
NMFS FISHERIES AT-SEA MONIT			DATE LAND	DED mm/yy	/
ASMOTG 05/01/16			PAGE #		of
GEAR CODE GEAR # NET NA	ME	NET TYPE			
	EXCLUDER/ SEPA	RATOR?	ESCAPE	OUTLET	?
Y D N D	Υ□	N 🗆	ΥΓ	]	
CODEND		LINER			
CODEND HUNG	CODEND MESH	LINER HUNG		LINE	R MESH
	MEASUREMENTS	UNKNOWN			SUREMENTS
	mm	DIAMOND			mm
SQUARE 🛛	mm	SQUARE			mm
SQUARE WRAPPED	mm	SQUARE WI	RAPPED		mm
	mm	COMBINATIO	NC		mm
CODEND TWINE	mm	LINER TWINE			mm
	mm	UNKNOWN			mm
SINGLE	mm	SINGLE			mm
DOUBLE 🗌	mm	DOUBLE			mm
TOP SINGLE/	mm	TOP SINGLE	Ξ/	_	_mm
BOTTOM DOUBLE	mm	BOTTOM DO	DUBLE		mm
OTHER 🛛		OTHER			
GEAR CODE GEAR # NET NA	ME	NET TYPE			
CODEND LINER ?	EXCLUDER/ SEPA	RATOR?	ESCAPE	OUTLET	?
Y 🗆 N 🗆	Υ□	N 🗆	ΥĽ	] [	N 🗆
CODEND		LINER			
CODEND HUNG	CODEND MESH	LINER HUNG		LINE	R MESH
	MEASUREMENTS	UNKNOWN			SUREMENTS
	mm	DIAMOND			mm
SQUARE 🛛	mm	SQUARE			mm
SQUARE WRAPPED	mm	SQUARE WI	RAPPED		mm
	mm	COMBINATI	NC		mm
CODEND TWINE	mm	LINER TWINE		_	mm
	mm	UNKNOWN			mm
SINGLE	mm	SINGLE			mm
DOUBLE 🛛	mm	DOUBLE			mm
TOP SINGLE/	mm	TOP SINGLE	Ξ/	_	mm
BOTTOM DOUBLE	mm	BOTTOM DO	DUBLE		mm
OTHER 🗌		OTHER			
COMMENTS		FOR OFFICE USE O	NLY		

### **Bottom Trawl Haul Log**

If the gear is set, and only partially hauled back, include the time spent hauling and resetting the net in this haul's time.

#### Comments

Record if a bottom trawl is fished just off the bottom. This is different from mid-water gear which is configured for pelagic fishing (no chaffing gear or sweep gear).

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Number of Turns	Count or obtain from captain.	Whole number	Dash.
		Only include turns greater than 90		Record "0" if no turns
		degrees.		made.
2	Tow Speed	Obtain from captain.	Knots, to the	Dash.
		Average speed during tow.	nearest tenth	
3	Wire Out	Obtain from captain.	Whole	Dash.
			fathoms	
4	Pumping Begin/End Date	Only pumping to your vessel.	MM/DD/YY	If pumping occurs,
		Comment on pumping to other		cannot be unknown
		vessel(s).		Leave blank if not
				pumping.
5	Pumping Begin/End	Only pumping to your vessel.	HH:MM (24hr)	Dash.
	Time	Comment on pumping to other		Leave blank if not
		vessel(s).		pumping.
6	Net Vertical Opening	Obtain from captain.	Whole feet	Dash.
		Top of mouth to bottom of mouth.		Leave blank if no gear
		Average while the net is fishing.		mounted electronics.
7	Net Horizontal Opening	Obtain from captain.	Whole feet	Dash.
		Wing tip to wing tip.		Leave blank if no gear
		Average while the net is fishing.		mounted electronics.
8	Door Spread	Obtain from captain.	Whole feet	Dash.
		One door to the other.		Leave blank if no gear
		Average while the net is fishing.		mounted electronics.
		If two sets of doors, add door spread		
		from both nets together.		

	WL HAU	UL L	.OG RVER	PRO	GRAM												OBS/ DATE		) (mm/yy)		A B	/	7
<u>D</u>	GEAR #		UL #	F	0 HAUL OBS NO 0 YES 1 (	6? ON NC <u>3</u> YE	I-EFFORT? 0 0 S 1 <u>H</u>	CATCI NO 0 YES 1	H?	INC TA NO 0 YES 1	.KE?	WEATHER C	ODE (	SPEI	ED L	/IND DIRE		- # WA	VE HEIGH	T DEF HAU	TH, JL BEGIN O	GEAR (	
GDATI	E dd/yy	TIN 24	//E hours		Station 1	Latitu	LATITUDE de / Bearing	/ LONGIT	UDE (DD Station 2	MM.M) -	LORAN () Longitud	XXXXX) e / Bearing		r	NUMBER OF 1	URNS	тс	DW SPE	ED		WIRE C	UT	
	/ Q /		R:		9960 -		s		9960 -						1				2	kn		3	fm
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G	4		5		-														I	HORIZ	ONTAL OP	ENING	**
	/ /		:																-		7 SPREAD	**	ft
	/ /		:		** Only fill in	if dear moun		are used								SAMPLE	E WEIGH W	IT MULT	IPLIER	DOON	8		ft
	SPE	CIES				gournour			W	/EIGHT			:	SPEC	IES			_				WEI	GHT
	NAME				CODE	SUB- SAMPLE WEIGHT	POUNDS	DISP CODE	D/R	ESTIM MET CO	ATION HOD DE		NAM	ЛЕ			CODE	SUB SAMP WEIGI	_E IT POUNE		ODE	D/R	ESTIMATION METHOD CODE
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Station 1       Lattude / Bearing       Station 2       WEATHER CODE       MARE         / / / :       Station 1       Lattude / Bearing       Station 2       MARE       OPTOR         / / / :       Station 1       Station 2       Station 2       &lt;th colspan="2&lt;/td&gt;<td>TRAWL HAUL LOG MARTES DESERVER PROGRAM         Deseverver Program         Deserver P</td><td>IDEST TREFE         DEST TREFE&lt;</td><td>TRAMULAUCO         OBSETTREP DECORAM           DELAU OSSPP 05/01/6         DOMESTION         DOMESTION</td><td>DESCRIPTION         DESCRIPTION         DE</td><td>TRAMU HAUL LOG       BERIES OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         OLENT OBSERVER PRO</td><td>ITRAMULAUC OF MALE AND REMAINS AND REPORT TO ALL OF MALE AND REMAIN AND LONG AND AND AND AND AND AND AND AND AND AND</td></td></td></th<>	TRAWL HAUL LOG HERIES OBSERVER PROGRAM DBHAU OBSP 05/01/16           D         GEAR #         E         HAUL #         F         NAU OBSP NO         ON-EFFORT? 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NO 0 NO 0 K         D ME CATTUDE (DD MM.M) - LORAN (XXXXX)         mm/dd/y 24 hours       Station 1       Lattrude / Bearing         / / . :       OSED :       S 9960 -       S 9960 -         / / . :       OMMENTS         / / . :       OMMENTS         / / . :       SUB-       WEIGHT         SUB-       DISP       MEHOD         NAME       CODE       NAME         SUB-       SUB-       SUB-       SUB-         NAME       B'</td> <td>TRAVL HAUL LOG         HERLES OBSERVER PROGRAM         D       GEAR # E       HAUL ØS?       ON-EFFORT?       CATCH?       INC TAKE?       WEATHER CODE       SFE         D       GEAR # E       HAUL ØS?       ON-EFFORT?       CATCH?       INC TAKE?       WEATHER CODE       SFE         A       Immiddity       24 hours       Station 1       Latitude / Bearing       Station 2       Longitude / Bearing       No.0       Immiddity       Yes 1       Immiddity       Yes</td> <td>TRAVL HAUL LOG         BIALU DSSPP 05/01/16         D       GEAR # E       HAUL # F       HAUL 0857       ON-EFFORT?       CATCH?       INC TAKE?       WEATHER CODE       SPEED         D       Image: Station 1       Image: Station 2       Image: Station 2       Image: Station 2       Image: Station 1       Image: Station 1       Image: Station 1       Image: Station 2       Image:</td> <td>TRAVL HAUL LOG         BHAU 053ERVER PROGRAM         D       GEAR#       E       HAUL 057       ON-EFFORT?       CATCH?       INC TAKE?       WEATHER CODE       SPEED       WIND         D       GEAR#       E       HAUL 057       ON-EFFORT?       CATCH?       INC TAKE?       WEATHER CODE       SPEED       WIND       Direct         DATE       TIME       LATTUDE / LONGTUDE (DD MM.M) - LORAN (XXXX)         MARE       Station 1       Lattude / Bearing       Station 2       Longtude / Bearing         / Q       R       Station 1       Lattude / Longtude / Bearing         / / R       Station 1       Lattude / Bearing       Station 2       Longtude / Bearing         / / .       Station 1       Lattude / Bearing       Station 2       WEATHER CODE       MARE         / / / :       Station 1       Lattude / Bearing       Station 2       MARE       OPTOR         / / / :       Station 1       Station 2       Station 2       &lt;th colspan="2&lt;/td&gt;<td>TRAWL HAUL LOG MARTES DESERVER PROGRAM         Deseverver Program         Deserver P</td><td>IDEST TREFE         DEST TREFE&lt;</td><td>TRAMULAUCO         OBSETTREP DECORAM           DELAU OSSPP 05/01/6         DOMESTION         DOMESTION</td><td>DESCRIPTION         DESCRIPTION         DE</td><td>TRAMU HAUL LOG       BERIES OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         OLENT OBSERVER PRO</td><td>ITRAMULAUC OF MALE AND REMAINS AND REPORT TO ALL OF MALE AND REMAIN AND LONG AND AND AND AND AND AND AND AND AND AND</td></td>	TRAWL HAUL LOG HERES OBSERVER PROGRAM DBHAU OBSPP 05/01/16           D         GEAR # E         HAUL #         F         HAUL 0BS?         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NO 0 NO 0 K         D ME CATTUDE (DD MM.M) - LORAN (XXXXX)         mm/dd/y 24 hours       Station 1       Lattrude / Bearing         / / . :       OSED :       S 9960 -       S 9960 -         / / . :       OMMENTS         / / . :       OMMENTS         / / . :       SUB-       WEIGHT         SUB-       DISP       MEHOD         NAME       CODE       NAME         SUB-       SUB-       SUB-       SUB-         NAME       B'	TRAVL HAUL LOG         HERLES OBSERVER PROGRAM         D       GEAR # E       HAUL ØS?       ON-EFFORT?       CATCH?       INC TAKE?       WEATHER CODE       SFE         D       GEAR # E       HAUL ØS?       ON-EFFORT?       CATCH?       INC TAKE?       WEATHER CODE       SFE         A       Immiddity       24 hours       Station 1       Latitude / Bearing       Station 2       Longitude / Bearing       No.0       Immiddity       Yes 1       Immiddity       Yes	TRAVL HAUL LOG         BIALU DSSPP 05/01/16         D       GEAR # E       HAUL # F       HAUL 0857       ON-EFFORT?       CATCH?       INC TAKE?       WEATHER CODE       SPEED         D       Image: Station 1       Image: Station 2       Image: Station 2       Image: Station 2       Image: Station 1       Image: Station 1       Image: Station 1       Image: Station 2       Image:	TRAVL HAUL LOG         BHAU 053ERVER PROGRAM         D       GEAR#       E       HAUL 057       ON-EFFORT?       CATCH?       INC TAKE?       WEATHER CODE       SPEED       WIND         D       GEAR#       E       HAUL 057       ON-EFFORT?       CATCH?       INC TAKE?       WEATHER CODE       SPEED       WIND       Direct         DATE       TIME       LATTUDE / LONGTUDE (DD MM.M) - LORAN (XXXX)         MARE       Station 1       Lattude / Bearing       Station 2       Longtude / Bearing         / Q       R       Station 1       Lattude / Longtude / Bearing         / / R       Station 1       Lattude / Bearing       Station 2       Longtude / Bearing         / / .       Station 1       Lattude / Bearing       Station 2       WEATHER CODE       MARE         / / / :       Station 1       Lattude / Bearing       Station 2       MARE       OPTOR         / / / :       Station 1       Station 2       Station 2       <th colspan="2</td> <td>TRAWL HAUL LOG MARTES DESERVER PROGRAM         Deseverver Program         Deserver P</td> <td>IDEST TREFE         DEST TREFE&lt;</td> <td>TRAMULAUCO         OBSETTREP DECORAM           DELAU OSSPP 05/01/6         DOMESTION         DOMESTION</td> <td>DESCRIPTION         DESCRIPTION         DE</td> <td>TRAMU HAUL LOG       BERIES OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         OLENT OBSERVER PRO</td> <td>ITRAMULAUC OF MALE AND REMAINS AND REPORT TO ALL OF MALE AND REMAIN AND LONG AND AND AND AND AND AND AND AND AND AND</td>	TRAWL HAUL LOG MARTES DESERVER PROGRAM         Deseverver Program         Deserver P	IDEST TREFE         DEST TREFE<	TRAMULAUCO         OBSETTREP DECORAM           DELAU OSSPP 05/01/6         DOMESTION         DOMESTION	DESCRIPTION         DE	TRAMU HAUL LOG       BERIES OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         D OLENT OBSERVER PROCRAM         OLENT OBSERVER PRO	ITRAMULAUC OF MALE AND REMAINS AND REPORT TO ALL OF MALE AND REMAIN AND LONG AND

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	GEAR #	HAUL #			-EFFORT?		1?		vv	VEATHER CODE	SDEE	<u>،</u>		ECTION	VAV	EHEIGHT			AR COND CODE
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					··· <u>···</u>				_	01		5	kn	320		<b>3</b> ft	20	fm	010
HAUL/FISHING	DATE	TIME			LATITUDE	/ LONGIT	UDE (DD	MM.M) - LORA	N (XXX	XXX)	N	UMBER OF	TURNS	т	OW SPEE	D	١	VIRE OUT	
INFO	mm/dd/yy	24 hours	Station 1	Latitu	<b>de</b> / Bearing		Station 2	Longi	tude / E	Bearing									
BEGIN	10/16/16	40.07	9960 -		05 0 00 0		9960 -			75 0 47 0						-			
	107 10 7 10	13:07			35 38.3					75 17.3	10		D	т/			ĸn	75	
FISHING	10/16/16	13:14									, vv		0	17		LOILO			CODE
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HAUL	10/16/16	15:07	9900 -		35 ° 34.2		9900 -			75 ° 19.9									
GEAR			COMMEN	TS												V	ERTICAL	OPENING	**
ONBOARD	10 / 16 / 16	15:14	-														_		
FISH PUMPIN	G			Catch wa	as dumped	, therefor	e no pur	nping informa	ation										tt NG **
			-															AL OF ENI	NG
BEGIN	_//																38	;	ft
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END	_//_													6	2 1				<i>t</i> ,
	SPECI	ES	Only fill in	if gear moun	ted electronics	are used	14				SDECI	-0			<u> </u>				
	SFECI	20		SUB-			v	ESTIMATION	1		SFECI	_3			SUB-				ESTIMATION
			CODE	SAMPLE		DISP	D/D	METHOD						CODE	SAMPLE		DISP	. D/D	METHOD
	NAME		CODE	WEIGHT	POUNDS	CODE	D/R	CODE		NA	IVIE			CODE	WEIGH	POUND	S CODE	: D/R	CODE
1 Summ	er Flounder			<u>_44.0</u>	273	100	R	02	11							-			
. Cumm	or Floundor				24	012	Б	01	10										
2 Summ	er Flounder			·•	3.4	012	ĸ	01	12						·•	-			
3 Spiny	Dogfish			8_6	53	015	R	02	13							_			
4 Smoot	h Dogfish			<u>3.3</u>	20	001	R	02	14						·•	-			
5 Clearn	ose Skate			30 4	189	001	R	02	15										
	ose onate				100	001		02	15						· · · ·	-			
6 Seasta	ar, Starfish, nk			4.1	25	001	R	02	16										
													T						
7 Witch	Flounder				1.5	100	R	01	17						·	-			
o Challe	nk			0.7		0E4	Б	02	10										
8 Snells,	, 11K				4	034	ĸ	02	18						·		+		
9 Debris	, Fishing Gear				15	053	R	06	19										
10 Conch	, nk			8	30	001	R	02	20							_			

TRAWI HAI										•		
NMFS FISH	ERIES A	T-SEA		RING P	ROG	RAM	DATE LAND	ED mm/yy		B	1	
ASMOTH AS	SMHAU	ASMSP	P 05/01/1	6			PAGE #	,,		Ċ	of	
GEAR CODE	GEAR NI	JMBER	HAUL NUM	/BER			HAUL OBSERVED?		INC TAKE?	?		J
D		E			F		YES 🗌 NO	G	YES 🗌		NO	
WEATHER CO	DE	WAVE HE	EIGHT	GEAR (	COND	CODE	TARGET SPECIES 1		TARGET S	PECIES	2	
к		N	ft		Ρ		U			U2		
HAUL	DATE			TIME			LATITUDE/LONG	ITUDE (DD	MM.M)	1		
INFO	mm/dd/yy	/		24 hour	ſS		LATITUDE	LONGITU	JDE	or (S	FAT AF	REA)*
BEGIN HAUL		/ Q /	,	R	:		S				S2	
END HAUL		1 1			:							
COMMENTS							* Enter only i	f latitude/longit	ude coordinat	es are no	ot availa	able
								SAMPLE	WEIGHT M	IULTIPL	ER	
		SAMP			1	FST		SAMP	·•			FST
SPECIES NAM	IE	WEIGHT	POUNDS	CODE	D/R	METH.	SPECIES NAME	WEIGHT	POUNDS	CODE	D/R	METH.
<b>A'</b>		C'	D'	E'	F'	G'	11	•				
2							12	•				
3							13					
4							14	•				
5							15	•				
6							16	•				
7							17					
8							18					
		-			-							-
9		<u> </u>					19					

TRAWL HAUL LO	DG					OBS/TRIPID			A990	06-	
NMFS FISHERIE	S AT-SEA	MONITOF	ring p	ROG	RAM	DATE LANDED	mm/yy		10	) /1	6
ASMOTH ASMHA	U ASMSPI	P 05/01/1	6			PAGE #		T	_1_	of	_2
GEAR CODE GEA	R NUMBER	HAUL NUN	<b>/</b> BER			HAUL OBSERVED?		INC TAKE?	?		
050	0 1	C	2 3	]		YES 🕱 NO 🗌	]	YES 🗌		NO	X
WEATHER CODE	WAVE HI	EIGHT	GEAR	COND	CODE	TARGET SPECIES 1		TARGET S	PECIES	2	
01	3	ft		01		Summer Flou	Inder				
HAUL DATE			TIME			LATITUDE/LONGIT	JDE (DD	MM.M)	1		
INFO mm/c	ld/yy		24 hour	ſS		LATITUDE	LONGITU	JDE	or (ST	FAT AF	REA)*
BEGIN HAUL	10 / 16 /	16	13	3 [:] 1	4	41° 03.8	71°	27.2			
END HAUL	10 / 16 /	16	15	5 : 0	7	41° 00.7	71° 2	21.3			
COMMENTS						* Enter only if la	titude/longit	ude coordinat	es are no	ot availa	able
							SAMPLE	WEIGHT M	ULTIPL	ER	
								<u>    4   7</u>	8		
SPECIES NAME	SAMP. WEIGHT	POUNDS	DISP CODE	D/R	EST. METH.	SPECIES NAME	SAMP. WEIGHT	POUNDS	DISP CODE	D/R	EST. METH.
Summer 1 Flounder	<u>    55. 0                              </u>	263	100	R	02	11					
Summer 2 Flounder	•	3.4	012	R	01	12	•				
₃ Spiny Dogfish	13.5	65	015	R	02	13					
Smooth Dogfis	sh	37	001	R	02	14					
ູ Clearnose Ska	te 43.0	206	001	R	02	15					
6 Witch Flounder	r	1.5	100	R	01	16					
Shells, NK	0.9	4	054	R	02	17					
Debris, Fishing		-									
₈ Gear		15	053	R	06	18	•				
9	<b>.</b>					19					

#### **Twin Trawl Gear Characteristics Log**

A Twin Trawl gear is defined as a distinct combination of trawl nets (port and starboard) deployed during the trip. If, during a trip, one of the nets is not fished, complete a <u>Bottom Trawl Gear Characteristics Log</u> for the net fished singly.

For NEFOP trips, the port and starboard nets will each be described on their own <u>Twin Trawl Gear Characteristics Log</u> using the same gear number.

For ASM trips, fill out the labeled section for each net.

If the vessel has two or more *identical* gears which are hauled during the trip, assign each gear its own gear number and record them on separate <u>Twin Trawl Gear Characteristics Log</u>s with 10 random codend mesh size measurements and 10 random liner (if present) mesh measurements collected for each codend/liner.

For instructions on completing all fields not listed below refer to the Bottom Trawl Gear Characteristics Log.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
70*	Net Location	Visually confirm. On ASM trips, fill out the correct portion of the log.	Check one.	Cannot be unknown.
71*	Nets Connected?	Yes/No.	Check one.	"9".

TWIN TRAWL	GEAR CHAF	RACTER	ISTICS L	_OG									OBS/TRIF	PID	Α			
<b>NMFS FISHER</b>	IES OBSER	VER PR	OGRAM									F	DATE LAN	NDED mm/yy	в	/		
OBTTG 05/0	1/16											-	PAGE #		С [	OF		
GEAR CODE	GEAR NUMBER	R NET NA	ME	NET T	YPE	NET BL	JILDER		CODEND/LIN	IER		GEAR MOUN	TED	EXCLUDER/S	SEPARA	FOR DE	VICE	
									HUNG	CODEND	LINER	ELECTRONIC	s		41			
р	1		2		3		4			30	31		•	USED? NO	0	YES	1	
	-		-		·		-		Unknown	0	•	LISED 2	36		°	0	·	-
NET LOCATION 70	CONSTRUCTIO		AI		I ENGTH ME	ASUREMEN	NTS		Diamond	1 0 <u></u>		NO 0	00					
Port 1	TYPE								Square	2		YES 1		Type Code	42			
Starboard 2		N 8	00DL 0	10	Headrone	17		ft	Square wran	- <u> </u>		·			.=	_		
Other 9	Nylon (	0 <u>0</u>		10	rieadiope				Combination	8								
	Roly C	ות <u>יי</u>		—	Footropo/Swa	on 18		f+	Combination	0			PC		ISION			
DOOKS USED! 0	Foly C	)2 <u> </u>			1 ootrope/Swe	eh 10						INANGDUCE	110	T.L.D. LATEN	12			
	Keviar® (	)3 <u> </u>			Cround Coble	10		fm	I WINE I TPE	CODEND		27		Mach Siza	43			
	Specifia® C	)4 <u> </u>		—	Ground Cable	. 19		·		32	33		_	Wesh Size	·	II	1	
YES 1				—	Detalle			<i>t</i>	Unknown	0			20	(	A / F			
	Nomex®				Bridle	20		ſm	Single	1		ITPE	38	(circie one)	A / E	44		
	Combination 9	J8 <u> </u>			STRENGTHE	NER USED	?? <b>21</b>			, ²		Unknown	0	ESCAPE OUT	ILEI			
DOOR 7	Other 9	99 <u> </u>		<del></del>	NO 0	YE	S1		Single on Top	/		Wired	1		45			
1		8A	9A	10A	CHAFING GE	AR USED?	22		Double on Bo	ttom 3		Wireless	2	USED? NO	0	_YES	1	_
Kg			·		NO 0	YE:	S1		Other	9		Both	3					
LINER USED? 5	NETS CONNEC	TED? K		11		FISHING C	IRCLE						~~	-				
	/1	ĸ	ITE USED?		40				CODEND ME	SH SIZE		BRAND	39	TYPE	46	_		
NO 0	NO 0	— I		Number	12	# MESHES	<u> </u>			34		Unknown	0	Unknown		o		
YES 1	YES 1	N	0 0	Width	<b>13</b> in				n	חm	mm	Furuno®	1	Panel		1		
		Y	ES 1	Length	<b>14</b> in	MESH SIZ	E1	6in	-			Simrad®	2	Opening	:	2		
COMMENTS			GROUND	GEAR	23	24	25		n	חm	mm	Northstar Tech	n 3	Single Flap	:	3		
			TYPE	GROUND	CABLE BF	RIDLE/ LEG	SWEE	ΞP				Notus	4	Double Flap		4		
			Unknown	00					nn	nm	mm	Marport	5	Other	:	9		
			Chain	01								Scanmar	6					
			Cable / Wi	re 02					nn	nm	mm	Combination	8		46A			
			Wrapped 0	Cable 03								Other	9					
			Rock Hopp	per 04					n	nm	mm							
			Roller	05								39A		MESH SIZE	47	in		
			Rubber Co	ookie 06					LINER MESH	SIZE								
			Bobbin	07						35		LOCATION	40	LENGTH				
			Plate Gear	· 08					n	nm	mm	(check all that	apply)	# MESHES	48	OR	49	in
			None	98														
			Other	99					n	nm	mm	Unknown	0 🗆	WIDTH				
				234	4	24A	25A					Headrope	1 🗌	# MESHES	50	OR	51	in
									n	nm	mm	Wings	2 🗌	-				_
			SWEEP G	EAR	FL	OATS						Footrope	3 🗆					
			Number	26	Nu	umber	28		n	nm	mm	Door	5 🗌	SHAPE Type	Code		52	
					-			•				Codend	6 🗆					-
			Diameter	27	in Dia	ameter	29	in	n	nm	mm	Other	9 🗌	LOCATION T	ype Code		53	
					-			•				40A						-
L			1															

OMB Control No.: 0648-0593 Expires on: 10/31/2018

#### TWIN TRAWL GEAR CHARACTERISTICS LOG OBS/TRIP ID A99052-NMFS FISHERIES OBSERVER PROGRAM DATE LANDED mm/vv 11 16 OBTTG 05/01/16 PAGE # 1 OF 1 GEAR CODE GEAR NUMBER NET NAME NET TYPE NET BUILDER CODEND/LINER GEAR MOUNTED EXCLUDER/SEPARATOR DEVICE HUNG CODEND LINER ELECTRONICS 2-Seam Groundfish 0 5 3 **Twin Trawl Custom Built** USED? NO 0 X YES 1 01 Trawl USED ? Unknown 0 NET LOCATION CONSTRUCTION MATERIAL LENGTH MEASUREMENTS Diamond 1 X NO 0 TYPE CODEND Port NET BODY LINER Square YES 1 **X** 1 X Type Code Starboard Unknown 00 100 ft 2 Headrope Square, wrapped 3 Other 9 Nylon 01 Combination 8 NUMBER OF Х Х DOORS USED? Poly 02 Footrope/Sweep **170** ft TRANSDUCERS T.E.D. EXTENSION Kevlar® 03 TWINE TYPE CODEND LINER _____ NO 0 Spectra® 04 Ground Cable **55** fm 2 Mesh Size in YES Х 1 Tenex® 05 Unknown 0 Nomex® 06 Bridle 50 fm Single TYPE (circle one) A / E _____ WEIGHT OF ONE Combination STRENGTHENER USED? Unknown ESCAPE OUTLET 98 Double 2 X 0 DOOR Other Wired 99 Single on Top/ NO 0 X YES 1 1 CHAFING GEAR USED? Double on Bottom 3 Wireless 2 X USED? NO 0 X YES 1 270 NO 0 YES 1 _X Other Both 3 _kg 9 LINER USED? **NETS CONNECTED?** KITE PANEL FISHING CIRCLE BRAND TYPE KITE USED? CODEND MESH SIZE Number 3 # MESHES 600 Unknown NO 0 **X** NO 0 Unknown 0 1 **X** NO Width YES 0 39 in YES 154 mm 160 mm Furuno® Panel YES 1_**X**_ Length 39 in MESH SIZE 6**.0**___in Simrad® 2 X Opening GROUND GEAR COMMENTS 162 mm 161 mm Northstar Tech 3 Single Flap TYPE GROUND CABLE **BRIDLE/LEG** SWEEP Notus 4 Double Flap Unknown 00 158 160 Marport Other mm 5 mm Chain 01 Scanmar 6 Cable / Wire 157 157 Combination 8 02 mm mm Wrapped Cable 03 Other 9 Rock Hopper 04 Х 159 162 mm mm Roller 05 MESH SIZE in Rubber Cookie 06 Х Х LINER MESH SIZE Bobbin 07 LOCATION LENGTH Plate Gear 08 mm (check all that apply) # MESHES OR in mm None 98 0 Other 99 Unknown WIDTH mm mm Headrope 1 # MESHES OR in 2 Wings mm mm SWEEP GEAR FLOATS 3 Footrope 5 X Number 120 Number 70 Door SHAPE Type Code mm mm Codend 6 8 Other 9 Diameter 18 Diameter LOCATION Type Code in in mm mm

OMB Control No.: 0648-0593 Expires on: 10/31/2018

ADDITIONAL COMMENTS       EXCLUDER/SEPARATOR DEVICE TYPE CODES:       ESCAPE OUTLET SHAPE CODES:       ESCAPE OUTLET LOCATION CODES:         00 = Unknown       24 = Bent Rod T.E.D.       00 = Unknown       0 = Unknown       0 = Unknown         01 = Nordmore Grate       25 = Conch T.E.D.       01 = Rectangular       1 = Net Top         03 = Separator Panel       26 = Flat Bottom T.E.D.       05 = Trapezoid       2 = Net Bottom         04 = Guiding Device       27 = Whelk T.E.D.       06 = Square       3 = Net Side         05 = Raised Footrope       28 = Flexible T.E.D.       07 = Diamond       4 = Codend Top         06 = Compound Nordmore Grate       29 = Parker Soft T.E.D.       08 = Triangular       5 = Codend Bottom         07 = Double Nordmore Grate       30 = Experimental T.E.D.       09 = Semi-Circle       8 = Combination (Comment)         08 = Large Mesh       31 = Northeast Modified T.E.D.       11 = Horizontal Cut       9 = Other (Comment)         21 = Standard T.E.D.       98 = Combination (Comment)       99 = Other (Comment)       91 = Viter (Comment)         22 = Weedless T.E.D.       99 = Other (Comment)       91 = Semi-Circle       91 = Viter (Comment)					OBS/TRIP ID
ADDITIONAL COMMENTS       EXCLUDER/SEPARATOR DEVICE TYPE CODES:       ESCAPE OUTLET SHAPE CODES:       ESCAPE OUTLET LOCATION CODES:         00 = Unknown       24 = Bent Rod T.E.D.       00 = Unknown       0 = Unknown       0 = Unknown         01 = Nordmore Grate       25 = Conch T.E.D.       01 = Rectangular       1 = Net Top         03 = Separator Panel       26 = Flat Bottom T.E.D.       05 = Trapezoid       2 = Net Bottom         04 = Guiding Device       27 = Whelk T.E.D.       06 = Square       3 = Net Side         05 = Raised Footrope       28 = Flexible T.E.D.       07 = Diamond       4 = Codend Top         06 = Compound Nordmore Grate       29 = Parker Soft T.E.D.       08 = Triangular       5 = Codend Bottom         07 = Double Nordmore Grate       30 = Experimental T.E.D.       09 = Semi-Circle       8 = Combination (Comment)         08 = Large Mesh       31 = Northeast Modified T.E.D.       11 = Horizontal Cut       9 = Other (Comment)         21 = Standard T.E.D.       98 = Combination (Comment)       29 = Other (Comment)       29 = Other (Comment)         21 = Standard T.E.D.       99 = Other (Comment)       21 = Standard T.E.D.       99 = Other (Comment)         22 = Weedless T.E.D.       99 = Other (Comment)       21 = Standard T.E.D.       91 = Horizontal Cut       91 = Horizontal Cut         23 = Flounder T.E.D.					DATE LANDED mm/yy /
ADDITIONAL COMMENTS       EXCLUDER/SEPARATOR DEVICE TYPE CODES:       ESCAPE OUTLET SHAPE CODES:       ESCAPE OUTLET LOCATION CODES:         00 = Unknown       24 = Bent Rod T.E.D.       00 = Unknown       0 = Unknown       0 = Unknown         01 = Nordmore Grate       25 = Conch T.E.D.       01 = Rectangular       1 = Net Top         03 = Separator Panel       26 = Flat Bottom T.E.D.       05 = Trapezoid       2 = Net Bottom         04 = Guiding Device       27 = Whelk T.E.D.       06 = Square       3 = Net Side         05 = Raised Footrope       28 = Flexible T.E.D.       07 = Diamond       4 = Codend Top         06 = Compound Nordmore Grate       29 = Parker Soft T.E.D.       08 = Triangular       5 = Codend Bottom         07 = Double Nordmore Grate       30 = Experimental T.E.D.       09 = Semi-Circle       8 = Combination (Comment)         08 = Large Mesh       31 = Northeast Modified T.E.D.       99 = Other (Comment)       9 = Other (Comment)         20 = T.E.D., Unknown       32 = Large Flat Bar T.E.D.       99 = Other (Comment)       9 = Other (Comment)         21 = Standard T.E.D.       98 = Combination (Comment)       99 = Other (Comment)       91 = Net (Comment)         22 = Weedless T.E.D.       98 = Other (Comment)       91 = Northeast Modified T.E.D.       91 = Net (Comment)         23 = Flounder T.E.D.       98 = Other (Comm					PAGE # OF OF
00 = Unknown24 = Bent Rod T.E.D.00 = Unknown0 = Unknown01 = Nordmore Grate25 = Conch T.E.D.01 = Rectangular1 = Net Top03 = Separator Panel26 = Flat Bottom T.E.D.05 = Trapezoid2 = Net Bottom04 = Guiding Device27 = Whelk T.E.D.06 = Square3 = Net Side05 = Raised Footrope28 = Flexible T.E.D.07 = Diamond4 = Codend Top06 = Compound Nordmore Grate29 = Parker Soft T.E.D.08 = Triangular5 = Codend Bottom07 = Double Nordmore Grate30 = Experimental T.E.D.09 = Semi-Circle8 = Combination (Comment)08 = Large Mesh31 = Northeast Modified T.E.D.11 = Horizontal Cut9 = Other (Comment)20 = T.E.D., Unknown32 = Large Flat Bar T.E.D.99 = Other (Comment)9 = Other (Comment)21 = Standard T.E.D.99 = Other (Comment)23 = Flounder T.E.D.99 = Other (Comment)23 = Flounder T.E.D.99 = Other (Comment)91 = Northore (Comment)	ADDITIONAL COMMENTS	EXCLUDER/SEPARATOR DEVICE	TYPE CODES:	ESCAPE OUTLET SHAPE CODES:	ESCAPE OUTLET LOCATION CODES:
01 = Nordmore Grate25 = Conch T.E.D.01 = Rectangular1 = Net Top03 = Separator Panel26 = Flat Bottom T.E.D.05 = Trapezoid2 = Net Bottom04 = Guiding Device27 = Whelk T.E.D.06 = Square3 = Net Side05 = Raised Footrope28 = Flexible T.E.D.07 = Diamond4 = Codend Top06 = Compound Nordmore Grate29 = Parker Soft T.E.D.08 = Triangular5 = Codend Bottom07 = Double Nordmore Grate30 = Experimental T.E.D.09 = Semi-Circle8 = Combination (Comment)08 = Large Mesh31 = Northeast Modified T.E.D.11 = Horizontal Cut9 = Other (Comment)20 = T.E.D., Unknown32 = Large Flat Bar T.E.D.99 = Other (Comment)9 = Other (Comment)21 = Standard T.E.D.99 = Other (Comment)99 = Other (Comment)91 = Noter (Comment)22 = Weedless T.E.D.99 = Other (Comment)91 = Noter (Comment)91 = Noter (Comment)23 = Flounder T.E.D.91 = Other (Comment)91 = Noter (Comment)		00 = Unknown	24 = Bent Rod T.E.D.	00 = Unknown	0 = Unknown
03 = Separator Panel26 = Flat Bottom T.E.D.05 = Trapezoid2 = Net Bottom04 = Guiding Device27 = Whelk T.E.D.06 = Square3 = Net Side05 = Raised Footrope28 = Flexible T.E.D.07 = Diamond4 = Codend Top06 = Compound Nordmore Grate29 = Parker Soft T.E.D.08 = Triangular5 = Codend Bottom07 = Double Nordmore Grate30 = Experimental T.E.D.09 = Semi-Circle8 = Combination (Comment)08 = Large Mesh31 = Northeast Modified T.E.D.11 = Horizontal Cut9 = Other (Comment)20 = T.E.D., Unknown32 = Large Flat Bar T.E.D.99 = Other (Comment)21 = Standard T.E.D.99 = Other (Comment)22 = Weedless T.E.D.99 = Other (Comment)23 = Flounder T.E.D.99 = Other (Comment)23 = Flounder T.E.D.34 = Flounder T.E.D.		01 = Nordmore Grate	25 = Conch T.E.D.	01 = Rectangular	1 = Net Top
04 = Guiding Device27 = Whelk T.E.D.06 = Square3 = Net Side05 = Raised Footrope28 = Flexible T.E.D.07 = Diamond4 = Codend Top06 = Compound Nordmore Grate29 = Parker Soft T.E.D.08 = Triangular5 = Codend Bottom07 = Double Nordmore Grate30 = Experimental T.E.D.09 = Semi-Circle8 = Combination (Comment)08 = Large Mesh31 = Northeast Modified T.E.D.11 = Horizontal Cut9 = Other (Comment)20 = T.E.D., Unknown32 = 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.99 = Other (Comment)		03 = Separator Panel	26 = Flat Bottom T.E.D.	05 = Trapezoid	2 = Net Bottom
05 = Raised Footrope28 = Flexible T.E.D.07 = Diamond4 = Codend Top06 = Compound Nordmore Grate29 = Parker Soft T.E.D.08 = Triangular5 = Codend Bottom07 = Double Nordmore Grate30 = Experimental T.E.D.09 = Semi-Circle8 = Combination (Comment)08 = Large Mesh31 = Northeast Modified T.E.D.11 = Horizontal Cut9 = Other (Comment)20 = T.E.D., Unknown32 = Large Flat Bar T.E.D.99 = Other (Comment)99 = Other (Comment)21 = Standard T.E.D.98 = Combination (Comment)99 = Other (Comment)22 = Weedless T.E.D.99 = Other (Comment)91 = Other (Comment)23 = Flounder T.E.D.91 = Other (Comment)91 = Other (Comment)		04 = Guiding Device	27 = Whelk T.E.D.	06 = Square	3 = Net Side
06 = Compound Nordmore Grate29 = Parker Soft T.E.D.08 = Triangular5 = Codend Bottom07 = Double Nordmore Grate30 = Experimental T.E.D.09 = Semi-Circle8 = Combination (Comment)08 = Large Mesh31 = Northeast Modified T.E.D.11 = Horizontal Cut9 = Other (Comment)20 = T.E.D., Unknown32 = Large Flat Bar T.E.D.99 = Other (Comment)21 = Standard T.E.D.98 = Combination (Comment)99 = Other (Comment)22 = Weedless T.E.D.99 = Other (Comment)23 = Flounder T.F.D.91 = Other (Comment)		05 = Raised Footrope	28 = Flexible T.E.D.	07 = Diamond	4 = Codend Top
07 = Double Nordmore Grate30 = Experimental T.E.D.09 = Semi-Circle8 = Combination (Comment)08 = Large Mesh31 = Northeast Modified T.E.D.11 = Horizontal Cut9 = Other (Comment)20 = T.E.D., Unknown32 = Large Flat Bar T.E.D.99 = Other (Comment)21 = Standard T.E.D.98 = Combination (Comment)99 = Other (Comment)22 = Weedless T.E.D.99 = Other (Comment)23 = Flounder T.F.D.		06 = Compound Nordmore Grate	29 = Parker Soft T.E.D.	08 = Triangular	5 = Codend Bottom
08 = Large Mesh31 = Northeast Modified T.E.D.11 = Horizontal Cut9 = Other (Comment)20 = T.E.D., Unknown32 = Large Flat Bar T.E.D.99 = Other (Comment)21 = Standard T.E.D.98 = Combination (Comment)99 = Other (Comment)22 = Weedless T.E.D.99 = Other (Comment)23 = Flounder T.F.D.		07 = Double Nordmore Grate	30 = Experimental T.E.D.	09 = Semi-Circle	8 = Combination (Comment)
20 = T.E.D., Unknown32 = 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.F.D.		08 = Large Mesh	31 = Northeast Modified T.E.D.	11 = Horizontal Cut	9 = Other (Comment)
21 = Standard T.E.D.98 = Combination (Comment)22 = Weedless T.E.D.99 = Other (Comment)23 = Flounder T.F.D.		20 = T.E.D., Unknown	32 = Large Flat Bar T.E.D.	99 = Other (Comment)	
22 = Weedless T.E.D. 99 = Other (Comment) 23 = Flounder T.F.D.		21 = Standard T.E.D.	98 = Combination (Comment)		
23 = Flounder T E D		22 = Weedless T.E.D.	99 = Other (Comment)		
		23 = Flounder T.E.D.			

FOR OFFICE USE ONLY

TWIN TRAWL GE	AR LOG (F	RONT)				OE	BS/TRIPID		4
NMFS FISHERIE	S AT-SEA M	IONITO	RING	PROGRAM		D/	ATE LANDED mm/yy	/ E	3 /
ASMITIG 05/01/16				<b>FD</b> 2		P/	AGE #	(	<b></b> of
	GEAR # N			ED? <b>71</b>					
		N							
PORT NET (P)									
NET NAME	NET TYPE			CODEND LI	NER?	EXCLUDER/ S	SEPARATOR?	ESCAPE	OUTLET?
2	3			Υ□	5	Υ	41	ΥD	45
CODEND				NL		NL		NL	
		20					24		
	/N1	30 □			LINER	HUNG	31		
	אוי ר		IVIEA3					WEASUR	
				mm		SOLIARE			mm
SOLIARE				mm					mm
COMBINA				mm					mm
CODEND TWINE		32	1	mm	LINER	TWINE	33		mm
UNKNOW	/N			 mm		UNKNOWN			 mm
SINGLE				mm		SINGLE			mm
DOUBLE				mm		DOUBLE			mm
TOP SING	GLE/			mm		TOP SINGLE/			mm
воттом	DOUBLE			mm		BOTTOM DOUL	BLE 🗌		mm
OTHER				34		OTHER			3
COMMENTS									
STARBOARD NE	T (S)								
NET NAME	NET TYPE			CODEND LI	NER?	EXCLUDER/ S	SEPARATOR?	ESCAPE	OUTLET?
				Υ□		Y 🗌		Y 🗆	
				N 🗌		N 🗆		N 🗌	
CODEND			1		LINER			1	
CODEND HUNG		_	CODE	ND MESH	LINER	HUNG	_	LINER M	ESH
UNKNOW	/N		MEAS	JREMENTS		UNKNOWN		MEASUR	EMENTS
DIAMONE	C			mm		DIAMOND			mm
SQUARE				mm		SQUARE			mm
SQUARE	WRAPPED			mm		SQUARE WRA			mm
	ATION			mm					mm
	/NI			mm					mm
	VIN			IIIII 					IIIII mm
				mm					'''''' mm
	GLE/			'					 mm
BOTTOM				mm		BOTTOM DOLI	BLE 🗆		 mm
OTHER						OTHER			
COMMENTS									

TWIN TRAWL GE	EAR LOG (F	RONT)				OBS	S/TRIPID		<b>\99006-</b>
NMFS FISHERIE	/	10 /16							
ASMTTG 05/01/10	6					PAG	E #		_1_ of 1
GEAR CODE	GEAR # N	ETS CO	NNECT	ED?					
050	01	Y	X						
	01	N							
PORT NET (P)									
	NET TYPE				NER?	EXCLUDER/ SI	=PARATOR?	ESCAPE	OUILEI?
I win Trawi	2-Seam Fla		Ħ	Y LL		Y LI			
				N L <b>A</b>		IN LA		IN LA	
						HUNG			- CLI
	/NI				LINER				
	אוי		MEA30					INIEASUR	
			-15	52 mm					
SQUARE			1	60 mm					
			16	<b>8</b> mm					'''''' mm
			16	<b>0</b> mm		TWINE			 mm
	/N		15	<b>8</b> mm			П		 mm
SINGLE			14	57 mm		SINGLE			 mm
			16	3 mm					 mm
TOP SIN	GLE/		1	64 mm		TOP SINGLE/			 mm
воттом		Π	1	63 mm		BOTTOM DOUBL	E 🗆		mm
OTHER						OTHER			
STARBOARD NE	T (S)								
NET NAME	NET TYPE			CODEND LI	NER?	EXCLUDER/ SI	EPARATOR?	ESCAPE	OUTLET?
Twin Trawl	2-Seam Fla	tfish Ne	et	ΥD		ΥD		Y 🗌	
				N 🛛 🗙		N 🛛		N 🕱	
CODEND					LINER				
CODEND HUNG			CODEI	ND MESH	LINER	HUNG		LINER ME	ESH
UNKNOV	٧N		MEASI	JREMENTS		UNKNOWN		MEASUR	EMENTS
DIAMONI	C		_1(	6 <u>2</u> mm		DIAMOND			mm
SQUARE		X	_1;	<b>59</b> _mm		SQUARE			mm
SQUARE	WRAPPED		_1	<b>61</b> mm		SQUARE WRAP	PED 🗌		mm
COMBIN	ATION		_1(	<b>64</b> mm		COMBINATION			mm
CODEND TWINE			_15	<b>57</b> mm	LINER	TWINE			mm
UNKNOV	٧N		_15	<b>9</b> mm		UNKNOWN			mm
SINGLE		X	_10	5 <b>0</b> _mm		SINGLE			mm
DOUBLE				5 <u>8</u> mm		DOUBLE			mm
TOP SIN	GLE/	-		<u>b1</u> mm		TOP SINGLE/			mm
BOTTOM	DOUBLE		_1	<b>0∠</b> _mm		BOTTOM DOUBL			mm
						UTHER			

TWIN TRAWL GEAR LOG	(BACK)			OBS/TRIP	ID	
NMFS FISHERIES AT-SEA	MONITO	RING PROGRAM		DATE LAN	DED mm/yy	/
ASMTTG 05/01/16				PAGE #		of
GEAR CODE GEAR #	NETS CO	NNECTED?				
	Y					
	N					
PORT NET (P)					47000	
NET NAME NET TYPE			NER? E		ATOR?	ESCAPE OUTLET?
				Υ⊔ NΠ		Y 🗆 N 🗆
			LINER			
		CODEND MESH	LINER H	UNG		LINER MESH
UNKNOWN		MEASUREMENTS	U	NKNOWN		MEASUREMENTS
DIAMOND		mm	D	IAMOND		mm
SQUARE		mm	S	QUARE		mm
SQUARE WRAPPED		mm	S	QUARE WRAPPED		mm
COMBINATION		mm	С	OMBINATION		mm
CODEND TWINE		mm	LINER T	WINE		mm
UNKNOWN		mm	U	NKNOWN		mm
SINGLE		mm	S	INGLE		mm
DOUBLE		mm	D	OUBLE		mm
TOP SINGLE/		mm	Т	OP SINGLE/		mm
BOTTOM DOUBLE		mm	В	OTTOM DOUBLE		mm
OTHER			0	THER		
STARBOARD NET (S)						
STARBOARD NET (S) NET NAME NET TYPE			NER? E	XCLUDER/ SEPAR	ATOR?	ESCAPE OUTLET?
STARBOARD NET (S) NET NAME NET TYPE			NER? E	XCLUDER/ SEPAR Y 🗌	ATOR?	ESCAPE OUTLET?
STARBOARD NET (S) NET NAME NET TYPE		CODEND LII Y 🗌 N 🗌	NER? E	XCLUDER/ SEPAR Y 🗌 N 📋	ATOR?	ESCAPE OUTLET? Y 🗌 N 🗌
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       NET NAME			LINER		ATOR?	
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND         CODEND HUNG         LINKNOWN			NER? E		ATOR?	ESCAPE OUTLET? Y - N - LINER MESH
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       CODEND HUNG         UNKNOWN       DIAMOND		CODEND LII Y N N CODEND MESH MEASUREMENTS	NER? E LINER H U	XCLUDER/ SEPAR Y - N - UNG NKNOWN	ATOR?	ESCAPE OUTLET? Y D N D LINER MESH MEASUREMENTS
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       Image: Code Note of the second se		CODEND LII Y - N - CODEND MESH MEASUREMENTS	NER? E LINER LINER H U D S	XCLUDER/ SEPAR Y - N - UNG NKNOWN IAMOND OLLARE	ATOR?	ESCAPE OUTLET? Y N LINER MESH MEASUREMENTS mm mm
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       Image: Codend Hung         CODEND HUNG       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE		CODEND LII Y N CODEND MESH MEASUREMENTS	NER? E LINER H LINER H U D S S	XCLUDER/ SEPAR Y N N UNG NKNOWN IAMOND QUARE QUARE	ATOR?	ESCAPE OUTLET? Y  N N LINER MESH MEASUREMENTSmmmmmm
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE WRAPPED         COMBINATION       COMBINATION		CODEND LII Y N N CODEND MESH MEASUREMENTS mm mm mm	NER? E LINER H LINER H S S C	XCLUDER/ SEPAR Y N N UNG NKNOWN IAMOND QUARE QUARE QUARE WRAPPED OMBINATION	ATOR?	ESCAPE OUTLET? Y N LINER MESH MEASUREMENTS mm mm mm
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE WRAPPED         CODEND TWINE       CODEND TWINE		CODEND LII Y - N - CODEND MESH MEASUREMENTS mm mm mm mm mm	NER? E	XCLUDER/ SEPAR Y N N UNG NKNOWN IAMOND QUARE QUARE QUARE WRAPPED OMBINATION WINE	ATOR?	ESCAPE OUTLET? Y  N N LINER MESH MEASUREMENTSmmmmmmmmmmmm
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       NET TYPE         CODEND HUNG       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE WRAPPED         CODEND TWINE       UNKNOWN		CODEND LII Y N CODEND MESH MEASUREMENTS mm mm mm mm mm	NER? E LINER H U D S S C LINER T U	XCLUDER/ SEPAR Y N N UNG NKNOWN IAMOND QUARE QUARE QUARE WRAPPED OMBINATION WINE NKNOWN	ATOR?	ESCAPE OUTLET? Y  N N LINER MESH MEASUREMENTSmmmmmmmmmmmmmmmmmmmm
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       NET TYPE         CODEND HUNG       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE         CODEND TWINE       UNKNOWN         SINGLE       NET TYPE		CODEND LII Y - N - N - CODEND MESH MEASUREMENTS mm mm mm mm mm mm	NER? E LINER H LINER H S C LINER T U S	XCLUDER/ SEPAR Y N N N UNG NKNOWN IAMOND QUARE QUARE QUARE WRAPPED OMBINATION WINE NKNOWN INGLE	ATOR?	ESCAPE OUTLET? Y N N LINER MESH MEASUREMENTS mm mm mm mm mm mm mm
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       NET TYPE         CODEND HUNG       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE         CODEND TWINE       UNKNOWN         SINGLE       DOUBLE		CODEND LII Y N CODEND MESH MEASUREMENTS mm mm mm mm mm mm mm	NER? E LINER H LINER H S S C LINER T U S D	XCLUDER/ SEPAR Y N N N UNG NKNOWN IAMOND QUARE QUARE QUARE WRAPPED OMBINATION WINE NKNOWN INGLE OUBLE	ATOR?	ESCAPE OUTLET? Y  N N N LINER MESH MEASUREMENTSmmmmmmmmmmmmmmmmmmmmmmmmmm
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       NET TYPE         CODEND HUNG       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE         CODEND TWINE       UNKNOWN         SINGLE       DOUBLE         TOP SINGLE/       DOUBLE/		CODEND LII Y    N    CODEND MESH MEASUREMENTS mm mm mm mm mm mm mm mm	NER? E LINER H LINER H S C LINER T U S T	XCLUDER/ SEPAR Y N N N UNG NKNOWN IAMOND QUARE QUARE QUARE WRAPPED OMBINATION WINE NKNOWN INGLE OUBLE OP SINGLE/	ATOR?	ESCAPE OUTLET? Y  N N N LINER MESH MEASUREMENTS mm mm mm mm mm mm mm mm mm mm
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       NET TYPE         CODEND HUNG       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE         CODEND TWINE       UNKNOWN         SINGLE       DOUBLE         TOP SINGLE/       BOTTOM DOUBLE		CODEND LII Y    N    CODEND MESH MEASUREMENTS mm mm mm mm mm mm mm mm mm	NER? E LINER H LINER H S C LINER T U S D T B	XCLUDER/ SEPAR Y N N N N N N N N N N N N N	ATOR?	ESCAPE OUTLET? Y  N N N CONTRACT Y CONTRACT N N CONTRACT Y CONTRACT N N N N N N N N N N N N N N N N N N N
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       NET TYPE         CODEND HUNG       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE         CODEND TWINE       UNKNOWN         SINGLE       DOUBLE         TOP SINGLE/       BOTTOM DOUBLE         OTHER       OTHER		CODEND LII Y    N    CODEND MESH MEASUREMENTS mm mm mm mm mm mm mm mm mm	NER? E LINER H LINER H S C LINER T U S D T T B O	XCLUDER/ SEPAR Y N N N UNG NKNOWN IAMOND QUARE QUARE QUARE WRAPPED OMBINATION WINE NKNOWN INGLE OUBLE OUBLE OP SINGLE/ OTTOM DOUBLE THER	ATOR?	ESCAPE OUTLET? Y N N LINER MESH MEASUREMENTS mm mm mm mm mm mm mm mm mm
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       NET TYPE         CODEND HUNG       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE         CODEND TWINE       UNKNOWN         SINGLE       DOUBLE         TOP SINGLE/       BOTTOM DOUBLE         OTHER       OTHER	 	CODEND LII Y	NER? E	XCLUDER/ SEPAR Y N N N N N N N N N N N N N	ATOR?	ESCAPE OUTLET? Y  N N N CONTRACT Y CONTRACT N N CONTRACT Y CONTRACT N N N N N N N N N N N N N N N N N N N
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       NET TYPE         CODEND HUNG       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE         CODEND TWINE       UNKNOWN         SINGLE       DOUBLE         TOP SINGLE/       BOTTOM DOUBLE         OTHER       PORT COMMENTS	 	CODEND LII Y    N    CODEND MESH MEASUREMENTS mm mm mm mm mm mm mm mm mm	NER? E	XCLUDER/ SEPAR Y N N N N N N N N N N N N N	ATOR?	ESCAPE OUTLET? Y N N LINER MESH MEASUREMENTS mm mm mm mm mm mm mm mm mm
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       NET TYPE         CODEND HUNG       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE         CODEND TWINE       UNKNOWN         SINGLE       DOUBLE         TOP SINGLE/       BOTTOM DOUBLE         OTHER       OTHER	 	CODEND LII Y    N    CODEND MESH MEASUREMENTS mm mm mm mm mm mm mm mm mm	NER? E	XCLUDER/ SEPAR Y N N N N N N N N N N N N N	ATOR?	ESCAPE OUTLET? Y N N LINER MESH MEASUREMENTS mm mm mm mm mm mm mm mm
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       NET TYPE         CODEND HUNG       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE         CODEND TWINE       UNKNOWN         SINGLE       DOUBLE         TOP SINGLE/       BOTTOM DOUBLE         OTHER       PORT COMMENTS	 	CODEND LII Y    N    CODEND MESH MEASUREMENTS mm mm mm mm mm mm mm mm	NER? E	XCLUDER/ SEPAR Y N N N N N N N N N N N N N	ATOR?	ESCAPE OUTLET? Y N N LINER MESH MEASUREMENTS mm mm mm mm mm mm mm mm
STARBOARD NET (S)         NET NAME       NET TYPE         CODEND       UNKNOWN         DIAMOND       SQUARE         SQUARE       SQUARE         CODEND TWINE       UNKNOWN         SINGLE       DOUBLE         TOP SINGLE/       BOTTOM DOUBLE         OTHER       OTHER	 	CODEND LII Y    N    CODEND MESH MEASUREMENTS mm mm mm mm mm mm mm mm	NER? E	XCLUDER/ SEPAR Y N N N N NUNG NKNOWN IAMOND QUARE QUARE WRAPPED OMBINATION WINE NKNOWN INGLE OUBLE OP SINGLE/ OTTOM DOUBLE THER CE USE ONLY	ATOR?	ESCAPE OUTLET? Y N N LINER MESH MEASUREMENTS mm mm mm mm mm mm mm mm

### **Twin Trawl Haul Log**

If the gear is set, and only partially hauled back, include the time spent hauling and resetting the net in this haul's time.

For instructions on completing numbered fields not listed below, refer the <u>Bottom Trawl Haul Log</u> section.

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
9*	Net Observed	If both catch from both nets cannot be observed, then the haul is unobserved.	Check one	"9".
GEAR CODE  GEAR & E  HAUL #  F  HAUL #  H  H  H  F  HAUL #  F  HAUL #  H  H  H  H  H  H  H  H  H <td< th=""></td<>				
---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------				
HAUL  DATE  TIME  LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)  NUMBER OF  TOW SPEED  WIRE OUT  WATER TEMP    BEGIN  Q  R  9960 -  9960 -  9960 -  1  2  kn  3  fm  T -  F    BEGIN  /  /  :  S  9960 -  1  2  kn  3  fm  T -  F    BEGIN  /  :  .  S  S  S  S  S  S  S  S  S  NUMBER OF  TURNS  TURNS  TWATER TEMP  0    BEGIN  /  :  .  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S  S <t< td=""></t<>				
NFO      mm/dd/yy      24 hours      Station 1      Latitude / Bearing      Station 2      Longitude / Bearing      TURNS      Image: Constraint of the state o				
BEGIN    Q    R    9960 -    S    9960 -    1    2    kn    T    F      BEGIN    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -    -				
HAUL  //  :  Sood  S  Order  1  2  kn  3  fm  T.  F    BEGIN				
BEGIN  Image: Comparison of the compa				
FISHING    /    /    :    Port    1      END				
END    9960 -    9960 -    U    V    Starboard    2				
HAUL    /    I    Both    3				
GEAR ONBOARD / / : COMMENTS COMMENTS COMMENTS SAMPLE WEIGHT MULTIPLIER W SAMPLE WEIGHT MULTIPLIER W SAMPLE WEIGHT MULTIPLIER W SAMPLE WEIGHT MULTIPLIER W SAMPLE WEIGHT MULTIPLIER W M M M M M M M M M M M M M				
ONBOARD      / / :        COMMENTS      6 ft        HORIZONTAL OPENING      **        DOOR SPREAD      **        SAMPLE WEIGHT MULTIPLIER      000R SPREAD        W				
6      ft        HORIZONTAL OPENING      **        7      ft        DOOR SPREAD      **        NullTipLier      NullTipLier        W				
V    N      HORIZONTAL OPENING    **      T    ft      DOOR SPREAD    **      W				
7    ft      DOOR SPREAD    **      M				
7    ft      DOOR SPREAD    **      SAMPLE WEIGHT MULTIPLIER    **      W    **      SPECIES    WEIGHT      SPECIES    WEIGHT				
7    ft      DOOR SPREAD    **      SAMPLE WEIGHT MULTIPLIER    **      W    **      SPECIES    WEIGHT    SPECIES				
DOOR SPREAD      **        SAMPLE WEIGHT MULTIPLIER W      8      ft        SPECIES      WEIGHT      SPECIES      WEIGHT				
SAMPLE WEIGHT MULTIPLIER      W        W				
W      B      ft        SPECIES      WEIGHT      SPECIES      WEIGHT				
Bit Metric Species      Weight      Species      8      π				
WEIGH1 SPECIES WEIGH1				
I SUB- ESTIMATION SUB-				
SAMPLE DISP METHOD SAMPLE DISP METHOD				
NAME CODE WEIGHT POUNDS CODE D/R CODE NAME CODE WEIGHT POUNDS CODE D/R CODE				
3 13				
414				
515				

TWIN TRAWL HAUL LOG											IP ID	A99006-			)6-			
NMFS FIS	HERIES O	BSERVER PR	OGRAM										DATE LA	ND (mm/	/y)	06	/	16
OBTTH C	OBHAU O	BSPP 05/01/	16										PAGE #			1	OF	2
GEAR CODE	GEAR #	HAUL #	HAUL OB	S? ON	I-EFFORT?	CATCH	1?	INC TAKE	Ξ?	WEATHER CODE		WIND		WAVE H	EIGHT DE	PTH,	GEAF	R COND CODE
			NO 0	NC	0 0	NO 0		NO 0	х		SPEEI	DIF	RECTION		HA	UL BEGI	N	
0 5 3	0 1	0 0 7	YES 1	X YE	S1 X	YES 1	Х	YES 1					0					
			-							02		<b>15</b> kn	320	4	ft	35	fm	010
HAUL	DATE	TIME			LATITUDE	/ LONGIT	UDE (DD I	MM.M) - LO	DRAN (X	XXXX)	NU	MBER OF	TOW SPEED	W	IRE OUT	W	ATER TE	MP
INFO	mm/dd/yy	24 hours	Station 1	Latitu	de / Bearing		Station 2	Lo	ongitude	e / Bearing	TU	RNS						0
BEGIN		16	9960 -			_	9960 -					-						
HAUL	00 / 00 /	10 21:52			40 ° 00.	3				/1 ° 18.2	_	0	<u> </u>	<u>/</u> kn	120	fm	43 .	<u>0</u> F
BEGIN		16 00-04									TA	RGET SPECIES	S		CODE	NET OBS	SERVED	
FISHING	00/00/	10 22:01					1				-	antia Lanatin	Carriel			Port	1	
	06/09/	16 01.16	9960 -		40 ° 12	1	9960 -			71 º 16 5	At	antic Longfin	Squia			Starboard	1 2 <u></u>	×
	00 / 03 /	01.10			40 12	. 1	l			/1 10.5	**0						<u> </u>	**
	06 / 09 /	16 01.32									0	niy nii in ii gear mo	unted electronics	are used	VENTICAL		9	
COMMENTS		01102																
																8	ft	
															HORIZON	TAL OPE	NING	**
	Ba	rndoor Skate and	l Monkfish t	aken out o	of pile befo	ore volume	e obtaine	d, therefo	ore actu	al weights obtained.								
																40	ft	
									DOOR SP	READ		**						
												SAMPLE WEIGI	HT MULTIPLIEF	र				
												5 3 7				85	#	
	SP	FCIES					W	FIGHT			SPECIE					00	v	FIGHT
	01			SUB-				ESTIMAT	ION			.0		SUB-				ESTIMATION
				SAMPLE		DISP		METHO	DD					SAMPLE		DISP		METHOD
	NAME		CODE	WEIGHT	POUNDS	CODE	D/R	CODE	=	NAN	ΛE		CODE	WEIGHT	POUNDS	CODE	D/R	CODE
1 Atlanti	c Lonafin Sa	uid		134.0	720	100	R	02	11									
	e Longini oq			<u>104.0</u>	120	100		02						• • • •				
2 Silver	Hake			84.7	455	100	R	02	12									
з Monkfi	ish				82	100	R	01	13									
4 Spiny I	Dogfish			<u>10.5</u>	56	001	R	02	14					•				
							_											
5 Barndo	oor Skate				22	001	R	01	15					·	-			
Dodfiel	h nk				2	001	Б	06	10									
6 Realis	n, n <b>k</b>			·•	2	001	ĸ	00	16					·				
7 Jonah	Crab				5	001	R	06	17									
																1	1	
8 Rock C	Crab				5	001	R	06	18									
9 Seasta	r, Starfish, nl				2	001	R	06	19									
10 Conch	, nk			•	5	001	R	06	20									

TWIN TRAWL HAUL LOG										Α				
NMFS FISH		T-SEA	MONITOF	ring p	ROG	RAM		DATE LAN	IDED	mm/yy		В	1	
ASMTTH AS	<b>SMHAU</b>	ASMSPP	01/01/16	ô				PAGE #				C	of	
GEAR CODE	GEAR N	UMBER	HAUL NUN	/IBER			HAUL OF	BSERVED	?		INC TAKE?	?		J
D		E			<b>F</b>		YES 🗌	N	<b>C</b>	G	YES 🗌		NO	
WEATHER CO	WEATHER CODE WAVE HEIGHT			GEAR (	COND	CODE	TARGET	SPECIES	51	TARGET SPECIES 2			52	
K N ft			Р			U			U2					
HAUL	DATE			TIME			LATITU	DE/LON	GITU	JDE (DD	MM.M)	1		
INFO	mm/dd/y	y		24 hour	S		LATITUD	E		LONGITU	IDE	or (S	ΓΑΤ ΑΓ	REA)*
BEGIN HAUL		/Q/		R	:			S					S2	
END HAUL		1 1			:									
COMMENTS * Enter only if latitude/longitude coordinates are not available														
										NET OBS	ERVED			
										Port			9	
										Starboard	1			
										Both				
										SAMPLE	WEIGHT M W	ULTIPL	IER	
		SAMP	-	DISP		EST	-			SAMP	•	 DISP	1	EST
SPECIES NAM	E	WEIGHT	POUNDS	CODE	D/R	METH.	SPECIES	NAME		WEIGHT	POUNDS	CODE	D/R	METH.
<b>A'</b>		C'	D'	Ε'	F'	G'	11			•				
2							12							
3		_					13			_				
-							14							
5		•					15			·•				
6		•					16			•				
7							17			<u> </u>				
8							18							
9							19							
-														
10		•					20			•				

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TWIN TRAWL HA	AUL LOG S AT-SEA	MONITOF	RING P	ROG	RAM	OBS/TRIPID DATE LANDED mm/yy				A99006- 10 / 16		
ASMTTH ASMHA	U ASMSPI	P 01/01/10	5			PAGE #			1	of	_2	
GEAR CODE GEAR	R NUMBER	HAUL NUN	<b>/</b> BER			HAUL OBSERVED?	-		?	-	-	
050	0 1	C	2 3			YES X NO		YES 🗌		NO	X	
WEATHER CODE	WAVE H	EIGHT	GEAR (	COND	CODE	TARGET SPECIES 1	TARGET SPECIES 2					
01 3		ft		01		Summer Flou						
HAUL DATE		TIME			LATITUDE/LONGIT	MM.M)						
INFO mm/c	ld/yy		24 hour	s		LATITUDE	LONGITU	JDE	or (ST	ΓΑΤ ΑΓ	REA)*	
BEGIN 10 / 16 / 16 HAUL			13	3 ÷1	4	41° 03.8	71° 27.2					
END HAUL	10 / 16	/ 16	15	5 : 0	7	41° 00.7	71° 21.3					
COMMENTS * Enter only if latitude/longitude coordinates are not available												
							NET OBS	SERVED				
							Port					
							Starboard	ł				
							Both		X			
							SAMPLE	WEIGHT M	IULTIPLI	IER		
								<u>4.7</u>	8			
SPECIES NAME	SAMP. WEIGHT	POUNDS	DISP CODE	D/R	EST. METH.	SPECIES NAME	SAMP. WEIGHT	POUNDS	DISP CODE	D/R	EST. METH.	
Summer 1 Flounder	<u> </u>	263	100	R	02	11	·					
Summer 2 Flounder		3.4	012	R	01	12						
₃ Spiny Dogfish	<u>13.5</u>	65	015	R	02	13						
Smooth Dogfis	sh 	37	001	R	02	14						
₅ Clearnose Ska	te <u>43.0</u>	206	001	R	02	15						
₆ Witch Flounder		1.5	100	R	01	16						
Shells, NK	0.9	4	054	R	02	17						
Debris, Fishing												
₈ Gear	•	15	053	R	06	18	•					
9						19						
10	•					20	•					

### Pair and Single Mid-water Trawl Gear Characteristics Log

If the vessel has two or more *identical* gears which are hauled during the trip, assign each gear its own gear number and record them on separate <u>Pair and Single Mid-water Trawl Gear Characteristics Log</u>s with 10 random codend mesh size measurements and 10 random liner (if present) mesh measurements collected for each codend/liner.

With the captain's permission, you may use the net plans to obtain many of the net dimensions. Codend/liner mesh sizes must be taken with calipers; do not use the net plans for these fields.

For instructions on completing all fields not listed below refer to the <u>Bottom Trawl Gear Characteristics Log</u>.

#### Comments

Always record the name of the vessel to which the described gear belongs, regardless of whether it is onboard your vessel or the paired vessel. (Ex: "Gear onboard F/V Western Venture").

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
54	Year Net Made	Obtain from captain.	4-digit year	"0000".
		Verify if more than 5 years old.		
55	Gear Fished	Record captain intention, not how the	Check one	"0".
		gear performed ⁹ .		
		Describe "Other" on line 55A.		
56	Net Construction	Obtain from captain.	Check one	"0".
		Describe "Other" on line 56A.		
57	Net Design	Obtain from captain.	Check one	"0".
		Describe "Other" on line 57A.		
58	Minimum Mesh Size	Obtain from captain.	Inches to the	Dash.
			nearest tenth	
59	Maximum Mesh Size	Obtain from captain.	Inches to the	Dash.
			nearest tenth	
60	Weights Used?	Yes/No.	Check one	"9".
		Typically on bottom bridle.		
61	Total Weight Pounds	Obtain from captain.	Whole pounds	Dash.
		Total for gear; combined weight for		
		both vessels on pair trawl.		
62	Weights A/E	Actual (weighed or weight visually	Check one	"0".
		confirmed from stamped weight) or		
		Estimated (obtained from captain).		
63	Floats Used?	Yes/No.	Check one	"9".
64	Blowout Section Used?	Yes/No.	Check one	"9".
65	Top Bridle Length	Obtain from captain.	Whole fathoms	Dash.
		Record for only one side.		Dash if not used.
66	Wing Bridle Length	Obtain from captain.	Whole fathoms	Dash.
		Record for only one side.		Dash if not used.
67	Bottom Bridle Length	Obtain from captain.	Whole fathoms	Dash.
		Record for only one side.		Dash if not used.
68	Bridles per Warp	Obtain from captain or net plans.	Whole number	Dash.
69	Bridles per Side	Obtain from captain or net plans.	Whole number	Dash.
		Record for only one side.		
70	Warps per Boat	Obtain from captain or net plans.	Whole number	Dash.
				Dash if not pair trawl.

⁹ Gear intended to be fished in continual contact with the bottom should be recorded as Bottom Trawl.

# PAIR and SINGLE MID-WATER TRAWL GEAR CHARACTERISTICS LOG

NMFS FISHERI	ES OE	BSERVE	R PRO	GRAM									DATE L	ANDED	mm/yy	В	/
OBPRG 05/0	1/16												PAGE #	ŧ		<b>C</b>	OF
GEAR CODE D	GEAR N	UMBER	NET NAM	E	NET TYPE		NET BUILDE	R	YEAR NET	CODEND/LINER			GEAR MOUN	ΓED	EXCLUDER/S	EPARAT	OR DEVICE
									MADE	HUNG	CODEND	LINER	ELECTRONIC	s		41	
		1	2		3		4	L	54		30	31			USED? NO	0	YES 1
										Unknown	0		USED ?	36			
GEAR FISHED	55	CONSTRU	JCTION M	ATERIAL		LE	ENGTH MEAS	UREME	INTS	Diamond	1		NO 0				
Unknown	0	TYPE	NE	T BODY C	ODEND LINE	2				Square	2		YES 1		Type Code	42	
Pelagic	1	Unknown	00	8	9 10	Н	eadrope	17	ft	Square, wrapped	3		· · <u></u>		.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		_
Semi-Pelagic	2	Nylon	01							Combination	8		NUMBER OF				
Bottom	3	Polv	02			Fo	ootrope/Sweep	18	ft				TRANSDUCE	RS**	T.E.D. EXTER	ISION	
Other	9	Kevlar®	03							TWINE TYPE	CODEND					43	
55A	°	Spectra®	04			Т	op Bridle	65	fm		32	33	37		Mesh Size		in
		Tenex®	05							Unknown	0						
NET		Nomex®	06			w	'ina Bridle	66	fm	Single	3 <u> </u>		TYPE	38	(circle one)	A/F 4	4
CONSTRUCTION	56	Combinati	on 98				ing priate	•••		Double	2			0	ESCAPE OU		-
Unknown	0	Other	99			B	ottom Bridle	67	fm	Single on Top/	ــــــــــــــــــــــــــــــــــــــ		Wired	1		45	
Dana // anna Maak	<u> </u>	00						•.		Daubla an Dattam	2		Minelese	·			
Rope/Large Mesh	1	-	8A	9A	104	, в	RIDLES		NUMBER	Double on Bottom	3		VVIreless	2	USED? NO	0	YES 1
Parallel Rope Trawl	2				e	— 		60		Other	9		Both	3	-		
564	9		GI/RELE#		J	DI	RIDLES/WARF	00			175			30	TVDE	46	
	57		63	0	1	BI		60						33		40	0
	0		- 61	0	_ 1			03		54			Unknown	0	Bonol		1
2 Soom	1		1 04	0	_ 1			70					Eurupo®	1	Oponing		2
4 Coorte French Donale	·			0	_ ' <u></u>			-					Circuit d@	' <u></u>			2 <u></u>
4 Seam, Equal Panels	2					<b>F</b> I		=		mm		mm	Simrad®	<u> </u>	Single Flap		3
4 Seam, Unequal	•	KITE PAN	IEL A	•		#	MESHES	15	·				Northstar Tech	1 3 <u> </u>	Double Flap		4
Panels	3	Number	1	1 <u>Z</u>				40	-	mm		mm	Notus	4	Other		9
Other	9	Length		1 <b>4</b> IN		IVI	ESH SIZE	10	m				Marport	5	-		
57A		Width	1	1 <u>3</u> in		S	TRENGTHENE	R USE	D? <b>21</b>	mm		mm	Scanmar	6		4	6A
NET BODY MESH SIZ	Έ						NO 0	- Y	′ES 1				Combination	8	-		
Minimum 58.	in	FLOATS	28		29	CI	HAFING GEAR	USED	? <b>22</b>	mm		mm	Other	9			
Maximum 59 .	in	Number		Diamete	er	in	NO 0	_ Y	′ES 1				39A		MESH SIZE	47	_in
LINER USED?	5	COMMEN	TS							LINER MESH SIZE							
NO 0										35			LOCATION	40	LENGTH		
YES 1										mm		mm	(check all that	apply)	# MESHES	<b>48</b> OF	Rin
DOORS	6																
USED? NO 0 YES	1									mm		mm	Unknown	0	WIDTH		
												_	Headrope	1	# MESHES	<b>50</b> OF	<b>₹ 51</b> in
WEIGHT 7	kg									mm		mm	Wings	2			
	60	1										_	Footrope	3			
USED? NO 0 YES	1									mm		mm	Door	5	SHAPE Type	Code	52
WEIGHT 61	— Ib	Codend =	"Covershe	et"								_	Codend	6	= . ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,		
Actual 1	62	Liner = "B	railer"							mm		mm	Other	9	LOCATION T	vpe Code	53
Estimated 2		* Fill in on	ly on nair ti	rawl trips			** Include	all serv	sors on the dear			_	404	-			
			y on pair ti	am uipo.			include		solo on the year	1			<del>_</del>				

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OBS/TRIP ID

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# PAIR and SINGLE MID-WATER TRAWL GEAR CHARACTERISTICS LOG

NMFS FISHERI	ES OE	BSERVE	R PROGRAM							DATE LA	NDED	mm/yy	10 /	16
OBPRG 05/0 ⁻	1/16									PAGE #			1 OF	2
GEAR CODE	GEAR N	UMBER	NET NAME	NET TYPE	NET BUILDER	YEAR NET	CODEND/LIN	ER		GEAR MOUNTE	D	EXCLUDER/S	EPARATOR	DEVICE
					id	MADE	HUNG	CODE	ND LINEF	ELECTRONICS				
1 7 0		1	Semi-Pelagic Trawl	Four Seam Squ	Swan Net Gundry	/						USED? NO	о <u>х</u> ү	'ES 1
				ITawi		2005	Unknown	0		USED ?				
GEAR FISHED		CONSTRU	JCTION MATERIAL		LENGTH MEASUREMEN	ITS	Diamond	1 _ <b>X</b>		NO 0				
Unknown	0	TYPE	NET BODY CO	ODEND LINER			Square	2	X	YES 1 X		Type Code		
Pelagic	1 <b>X</b>	Unknown	00		Headrope	<b>400</b> ft	Square, wrapp	oed 3						
Semi-Pelagic	2	Nylon	01 X				Combination	8		NUMBER OF				
Bottom	3	Poly	02		Footrope/Sweep	<b>400</b> ft				TRANSDUCERS	S**	T.E.D. EXTEN	SION	
Other	9	Kevlar®	03				TWINE TYPE	CODE	ND LINEF	2				
		Spectra®	04	<u>x x</u>	Top Bridle	<b>15</b> fm				1		Mesh Size _		_ in
		Tenex®	05				Unknown	0						
NET		Nomex®	06		Wing Bridle	<b>15</b> fm	Single	1		TYPE		(circle one)	A / E	
CONSTRUCTION		Combinati	on 98				Double	2		Unknown	0	ESCAPE OUT	LET	
Unknown	0	Other	99		Bottom Bridle	<b>15</b> fm	Single on Top/	/		Wired	1 <b>X</b>			
Rope/Large Mesh	1 <b>X</b>				BRIDLES	NUMBER	Double on Bot	ttom 3		Wireless	2	USED? NO	о <b>х</b> ү	'ES 1
Parallel Rope Trawl	2						Other	9		Both	3			
Other	9	BUOYAN	CY/RELEASE DEVICE	S	BRIDLES/WARP	2								
		USED?	NO	YES			CODEND MES	SH SIZE				TYPE		
DESIGN		FLOATS	0 <b>X</b>	1	BRIDLES/SIDE	2				BRAND		Unknown	0	
Unknown	0	BLOWOU	т 0 <u>X</u>	1			<b>190</b> n	mm	<u>189    </u> mn	n Unknown	0	Panel	1	
2 Seam	1	KITE	0 <u>X</u>	1	WARPS/BOAT*	1				Furuno®	1	Opening	2	
4 Seam, Equal Panels	2 X				FISHING CIRCLE		<b>170</b> n	nm	<b>194</b> mn	Simrad®	2 <b>X</b>	Single Flap	3	
4 Seam, Unequal		KITE PAN	EL		# MESHES	90				Northstar Tech	3	Double Flap	4	
Panels	3	Number			-		<b>210</b> n	nm	<b>187</b> mn	Notus	4	Other	9	
Other	9	Length	in		MESH SIZE	<b>457</b> in				Marport	5			
		Width	in		STRENGTHENER USED	?	<b>193</b> n	mm	<b>192</b> mn	Scanmar	6			
NET BODY MESH SIZ	Έ.		·		NO 0 YE	S1 X				Combination	8			
Minimum 1.5	in	FLOATS			CHAFING GEAR USED?		<b>191</b> n	nm	<b>195</b> mn	Other	9			
Maximum 120.	<b>1</b> in	Number	Diamete	r in	NO 0 YE	S1 X						MESH SIZE	ir	۱
		COMMEN	TS					SIZE				_		
		COMMEN						OIZE						
			Coor onboard E/// Wa	otorn Vonturo			<b>57</b>	~~~	<b>EG</b>	LOCATION	and a			in
			Gear onboard F/V we	stern venture			<b>57</b> n	nm	<b>30</b> mn	i (check all that ap	opiy)	# MESHES	OR	IN
							59	~~~	<b>59</b> mm	llaknown		WIDTH		
USED? NO U_A_ YES	51						<u> </u>		<b>JO</b> IIII					
										Headrope		# MESHES	OR	in
WEIGHI	kg						<b>61</b> n	nm	51 mn	vvings	2			
WEIGHTS (TOTAL)										Footrope	3			
USED? NO 0_YES	1_ <b>X</b> _						<b>59</b> n	nm	<b>57</b> mn	Door	5	SHAPE Type C	Code	
WEIGHT 4000	lb	Codend =	"Coversheet"							Codend	6		- ·	
Actual 1		Liner = "B	railer"				<b>62</b> n	mm	<b>60</b> mn	Other	9	LOCATION Ty	pe Code	
Estimated 2_X_		* Fill in on	y on pair trawl trips.		** Include all senso	ors on the gear								

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OBS/TRIP ID

A99052-

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

FOR OFFICE USE ONLY

### Pair and Single Mid-water Trawl Haul Log

If the gear is set, and only partially hauled back, include the time spent hauling and resetting the net in this haul's time.

Generally pair and single mid-water trawling occurs in high volume fisheries. Review the <u>Discard Log</u> and <u>Catch</u> <u>Composition Log</u> protocols before deploying. All <u>Pair and Single Mid-water Trawl Haul Log</u>s with catch (kept or discarded) must have an accompanying <u>Discard Log</u>, unless no catch exists (kept or discarded). If **any** catch is discarded, record details on the <u>Discard Log</u>, and record the species on the corresponding <u>Haul Log</u>.

For instructions on completing numbered fields not listed below, refer the <u>Bottom Trawl Haul Log</u> section.

#### Comments

If any catch is pumped or transferred to another vessel, record the vessel name in COMMENTS, even if that vessel is already listed as VESSEL #2 on the <u>Vessel and Trip Information Log</u>. For any vessel not documented on the <u>Vessel and Trip Information Log</u>, also record the USCG hull number.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
10	Depth Range, Headrope	Obtain from captain or from	Whole	Dash.
		transducer screen.	fathoms	
11	Distance Range Between	Obtain from captain.	Whole feet	Dash.
	Boats	Shortest and longest distance while		
		towing.		
		Does not include passing warps or		
		coming together to complete a turn.		

#### PAIR and SINGLE MID-WATER TRAWL HAUL LOG OBS/ TRIP ID А NMFS FISHERIES OBSERVER PROGRAM в DATE LAND (mm/yy) 1 OBPRH OBHAU OBSPP 05/01/16 PAGE # С OF [ GEAR CODE **D** GEAR # **E** HAUL # ON-EFFORT? F HAUL OBS? CATCH? INC TAKE? WEATHER CODE WIND WAVE HEIGHT DEPTH, GEAR COND CODE NO 0 **G** NO 0 I NO 0 DIRECTION HAUL BEGIN NO 0 H J SPEED ο YES 1 YES 1 YES 1 YES 1 κ L М 0 Ν Р kn fm ft LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) HAUL/FISHING DATE TIME NUMBER OF TOW SPEED WIRE OUT WATER TEMP INFO mm/dd/yy 24 hours Station 1 Latitude / Bearing Station 2 Longitude / Bearing TURNS BEGIN т 0 1 2 3 9960 -9960 -/ Q R : HAUL 1 s fm F kn BEGIN TARGET SPECIES CODE FISHING 1 1 . END U ۷ 1 HAUL 1 9960 -9960 -GEAR DEPTH RANGE, HEADROPE 1 1 ONBOARD FISH PUMPING VERTICAL ** HORIZONTAL ** DOOR SPREAD ** 10 BEGIN OPENING OPENING fm 5 : / 4 1 8 DISTANCE BETWEEN BOATS * 6 7 END 11 1 1 ft ft ft ft COMMENTS SAMPLE WEIGHT MULTIPLIER *Only fill in for pair trawl trips w **Only fill in if gear mounted electronics are used SPECIES WEIGHT SPECIES WEIGHT SUB-ESTIMATION SUB-ESTIMATION DISP SAMPLE DISP SAMPLE METHOD METHOD WEIGHT POUNDS CODE CODE WEIGHT CODE NAME CODE D/R CODE NAME POUNDS CODE D/R F' Α' B' C' D' Ε' G'

#### PAIR and SINGLE MID-WATER TRAWL HAUL LOG OBS/ TRIP ID A99012-NMFS FISHERIES OBSERVER PROGRAM DATE LAND (mm/yy) 10 / 16 OBPRH OBHAU OBSPP 05/01/16 PAGE # 1 OF 3 GEAR CODE GEAR # HAUL # HAUL OBS? ON-EFFORT? CATCH? INC TAKE? WEATHER CODE WIND WAVE HEIGHT DEPTH, GEAR COND CODE NO 0 NO 0 X DIRECTION NO 0 NO 0 SPEED HAUL BEGIN 0 YES 1 X YES1 X 1 7 0 1 0 0 1 YES1 X YES 1 0 48 02 10 kn 225 2 ft fm 010 LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX) HAUL/FISHING DATE TIME NUMBER OF TOW SPEED WIRE OUT WATER TEMP TURNS INFO mm/dd/yy 24 hours Station 1 Latitude / Bearing Station 2 Longitude / Bearing BEGIN 0 9960 -9960 -3.2 HAUL 10/11/16 23 : 28 5 210 F kn fm 55.2 BEGIN 43° 37.4 69° 42.7 TARGET SPECIES CODE FISHING 10/11/16 23 : 32 END Atlantic Herring HAUL 10/12/16 05 : 04 9960 -9960 -GEAR DEPTH RANGE, HEADROPE ONBOARD 10/12/16 43° 34.6 69° 43.2 FISH PUMPING VERTICAL ** HORIZONTAL ** DOOR SPREAD ** 22 28 BEGIN OPENING OPENING fm DISTANCE BETWEEN BOATS * 10/12/16 07:45 END 200 300 10/12/16 09:14 ft ft ft ft COMMENTS Haddock pulled out at grate and weighed. Spiny dogfish estimated as tally, crew tossed over before I could weigh them. See Discard Log about details about Fish, NK. SAMPLE WEIGHT MULTIPLIER *Only fill in for pair trawl trips **Only fill in if gear mounted electronics are used SPECIES WEIGHT SPECIES WEIGHT SUB-ESTIMATION SUB-ESTIMATION DISP SAMPLE METHOD SAMPLE DISP METHOD WEIGHT NAME CODE WEIGHT POUNDS CODE D/R CODE NAME CODE POUNDS CODE D/R CODE Atlantic Herring 295,000 100 R 10 150 001 R 05 Spiny Dogfish 172 R Haddock 100 01 R Fish, NK 1,000 049 04 Atlantic Mackerel 2,750 100 R 10

### Purse Seine Gear Characteristics Log

If the vessel has two or more identical gears which are set, complete only one <u>Purse Seine Gear Characteristics Log</u> and record the consecutively assigned numbers of all the identical gears described in GEAR NUMBER(S) (#1).

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Gear Number	Unique identifier for each purse	2-digit code	Cannot be unknown.
		seine.		
		Can be a list of gear numbers if all		
		have identical characteristics.		
2	Net Length	Obtain from captain.	Whole	Dash.
			fathoms	
3	Bunt Length	Obtain from captain.	Whole	Dash.
			fathoms	
4	Net Depth	Obtain from captain.	Whole	Dash.
			fathoms	
5	Bunt Depth	Obtain from captain.	Whole	Dash.
			fathoms	
6	Mesh Size of Net	Obtain from captain.	Inches, to the	Dash.
			nearest	
			hundredth	
7	Mesh Size of Bunt	Obtain from captain.	Inches, to the	Dash.
			nearest	
			hundredth	
8	Twine Size of Net	Obtain from captain.	Whole	Dash.
			millimeters	
9	Twine Size of Bunt	Obtain from captain.	Whole	Dash.
			millimeters	
10	Construction Material of	Obtain from captain.	Check one	"00".
	Net	Describe "Other" or "Combination"		
		on line 10A.		
11	Construction Material of	Obtain from captain.	Check one	"00".
	Bunt	Describe "Other" or "Combination"		
		on line 11A.		
12	Floatline Length	Obtain from captain.	Whole	Dash.
			fathoms	
13	Floatline Diameter	Obtain from captain.	Inches to the	Dash.
			nearest	
			hundredth	
14	Leadline Length	Obtain from captain.	Whole	Dash.
			fathoms	
15	Leadline Diameter	Obtain from captain.	Inches, to the	Dash.
			nearest	
			hundredth	
16	Purse Line Length	Obtain from captain.	Whole	Dash.
			tathoms	
17	Purse Line Diameter	Obtain from captain.	Inches, to the	Dash.
			nearest	
10			hundredth	
18	Leadline Weight	Obtain from captain.	Whole pounds	Dash.
19	Additional Weights	Yes/No.	Check one	"9″.
	Used?			

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
20	Additional Weights Weight	Obtain from captain.	Whole pounds	Dash.
21	Hauling Device	Obtain from captain. Describe "Other" on line 21A.	Check one	"0".
22	Purse Ring Type	Obtain from captain. Describe "Other" or "Combo" on line 22A.	Check one	"0".
23	Purse Ring Material	Obtain from captain. Describe "Other" on line 23A.	Check one	"0".





#### **Purse Seine Set Log**

Generally purse seining occurs in high volume fisheries. Review the <u>Discard Log</u> and <u>Catch Composition Log</u> protocols before deploying. All <u>Purse Seine Set Log</u>s with catch (kept or discarded) must have an accompanying <u>Discard Log</u>, unless no catch exists (kept or discarded). If **any** catch is discarded, record details on the <u>Discard Log</u>, and record the species on the corresponding <u>Haul Log</u>.

#### Comments

If any catch is pumped or transferred to another vessel, record the vessel name in COMMENTS, even if that vessel is already listed as VESSEL #2 on the <u>Vessel and Trip Information Log</u>. For any vessel not documented on the <u>Vessel and Trip Information Log</u>, also record the USCG hull number.

If FISH LOST (#10) is "Yes", describe the situation in COMMENTS but **do not** record those fish weights in the species section. If SUCCESSFUL SET (#9) is "No", describe the situation in COMMENTS.

Comment if a Triplex (triple roller system) is used.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Set Speed	Obtain from captain.	Knots, to the	Dash.
		Speed of main vessel setting net.	nearest tenths	
2	Pumping Begin/End Date	Only pumping to your vessel.	MM/DD/YY	If pumping occurs,
		Comment on pumping to other		cannot be unknown.
		vessel(s).		Leave blank if not
				pumping.
3	Pumping Begin/End	Only pumping to your vessel.	HH:MM (24hr)	Dash.
	Time	Comment on pumping to other		Leave blank if not
		vessel(s).		pumping.
4	Plane Used?	Yes/No.	Check one	"9".
		Visually confirm or obtain from		
		captain.		
5	Plane Time Up	Obtain from captain.	HH:MM (24hr)	Dash.
		Time plane took off.		
6	Plane Time Down	Obtain from captain.	HH:MM (24hr)	Dash.
		Time plane landed.		
7	Set By Plane?	Yes/No.	Check one	"9".
		Visually confirm or obtain from		
		captain.		
8	Set On Debris?	Yes/No.	Check one	"9".
		Visually confirm or obtain from		
		captain.		
9	Successful Set?	Yes/No.	Check one	"9".
		Obtain from captain.		
10	Fish Lost?	Yes/No.	Check one	"9".
		Obtain from captain.		
		"Yes" = fish escaped, unintentionally,		
		any time <b>before</b> SET END.		

PURSE S	RESEIVED BECORAM																	
NMFS FIS	S FISHERIES OBSERVER PROGRAM												DATE LA	AND (m	m/yy)	в	/	
OBPSH	OBHAU OB	SPP 05/01/16	6								-		PAGE #			с 🗌	OF	
GEAR CODE	D GEAR # E	HAUL # F	HAUL OBS?	ON-	-EFFORT?	CATCH	1?	INC TAK	E?	WEATHER CODE		WIND		WAVE	HEIGHT DE	PTH,	GEAR	R COND CODE
			NO 0 G	NO	0 <u>H</u>	NO0		NO 0	J		SPEED	DIRE	CTION		HA	UL BEGIN		_
			YES 1	- YES	51	YES 1		YES 1		ĸ	L	kn	MI O	N	ft	0 fm		Р
SET INFO	DATE	TIME			LATIT	UDE / LONG	GITUDE (	DD MM.M) -	LORAN (X	XXXX)	SET SPEED	T/	ARGET SPE	ECIES			CODI	E(S)
	mm/dd/yy	24 hours	Station 1	Latituo	de / Bearing		S	Station 2	Longitud	le / Bearing								
BEGIN	Q	R	0000			_		000			1		U				v	
	1 1		9960 -		:	S	5	9960 -				kn						
END		-	PLANE USE	D?	TIN	IE UP			WATER	TEMP (Fahrenheit)	NO 0	) YE	ES 1			NO 0		YES 1
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		2	NO U		TIN				-		PLANE? 1			5	=17	9		
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9								_	19									
10									20									

PURSE SEINE SET LOG												C	DBS/ TF	RIP ID		4	99024-	
NMFS FIS	MFS FISHERIES OBSERVER PROGRAM													AND (m	m/yy)		09 / 16	
OBPSH	OBHAU OB	SPP 05/01/1	6									F	PAGE #			1	OF	2
GEAR CODE	GEAR #	HAUL #	HAUL OBS?	ON-EFFORT?	CATCI	H?	INC TAK	E?	WEATHER CODE		WIN	ID		WAVE	HEIGHT DE	PTH,	GEA	R COND CODE
			NO 0 X	NO 0	NO 0		NO 0	<u> </u>		SPE	ED	DIRECT	ON		HA	UL BEGIN		
1 2 1	0 1	0 0 1	YES 1	YES 1 X	YES 1	<u> </u>	YES 1		03		10 kn	2	0		<b>2</b> ft	69 fm		510
SET INFO	DATE	TIME		LATI	TUDE / LON	GITUDE (D	DD MM.M) -	LORAN (X)	(XXX)		SET SPEED	TAR	GET SPI	ECIES	R	00 111	COD	E(S)
	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	]	S	tation 2	Longitud	e / Bearing									
BEGIN																		
	00/44/46	20 42	9960 -	45	. 54 0	9	960 -		70 % 00 7		~ ~	. 1	tlantic	Herring	9			
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FISH PUMPI	NG	-	NO 0 <u>)</u>	<u> </u>		·		_		PLA	NE? <u>X</u>		_	SI	ET?			<u> </u>
BEGIN				ті	ME DOWN				0									
	09 / 14 / 16	21 : 15	YES 1	_						SET	ON			FI	SH			
END	09/14/16	21 . 56				:			57.8 F	DEB	RIS? <u>X</u>		_	LC	DST?	<u> </u>	_	
COMMENTS	03/14/10	21.30								1								
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. Fich	nle			1 000	0.48													
<u>1 FISH,</u>	пк			1,000	046	ĸ	04	11										
2 Atlant	tic Herring			59,549	100	R	1(	) 12										
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7								17										
8								18										
9					-			19										
10								20										

## Scallop Trawl Gear Characteristics Log

A Scallop Trawl gear is defined as a distinct combination of trawl nets (port and starboard) deployed during the trip. The port and starboard nets will each be described on their own <u>Scallop Trawl Gear Characteristics Log</u> using the same gear number.

If the vessel has two or more *identical* gears which are hauled during the trip, assign each gear its own gear number and record them on separate <u>Scallop Trawl Gear Characteristics Log</u>s with 10 random codend mesh size measurements and 10 random liner (if present) mesh measurements collected for each codend/liner.

For instructions on completing all fields not listed below refer to the Bottom Trawl Gear Characteristics Log.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
70	Net Location	Visually confirm.	Check one	Cannot be unknown.
71	Nets Connected?	Yes/No.	Check one	"9".

#### SCALLOP TRAWL GEAR CHARACTERISTICS LOG OBS/TRIP ID Α NMFS FISHERIES OBSERVER PROGRAM в DATE LANDED mm/vv 1 OBSTG 05/01/16 PAGE # OF С GEAR CODE GEAR NUMBER NET NAME NET TYPE NET BUILDER CODEND/LINER GEAR MOUNTED EXCLUDER/SEPARATOR DEVICE HUNG CODEND LINER ELECTRONICS 41 D 2 1 3 4 30 31 USED? NO 0 YES 1 USED ? Unknown 36 0 NET LOCATION 70 CONSTRUCTION MATERIAL LENGTH MEASUREMENTS Diamond NO 0 1 TYPE CODEND NET BODY LINER Square YES 1 Port 1 Type Code 42 Starboard 2 Unknown 00 8 9 10 Headrope 17 ft Square, wrapped 3 Other 9 Nylon 01 Combination 8 NUMBER OF _____ DOORS USED? 6 Poly 02 Footrope/Sweep 18 ft TRANSDUCERS T.E.D. EXTENSION Kevlar® TWINE TYPE CODEND LINER 43 03 NO 0 Spectra® 04 Ground Cable 19 32 33 37 Mesh Size fm _ in YES Tenex® 05 Unknown 0 1 Nomex® 06 Bridle 20 fm Single TYPE 38 (circle one) A / E 44 _____ WEIGHT OF ONE Combination 98 STRENGTHENER USED? 21 Unknown ESCAPE OUTLET Double 2 0 DOOR 7 Other 99 NO 0 YES 1 Single on Top/ Wired 1 45 Wireless 9A 10A CHAFING GEAR USED? 22 Double on Bottom 3 2 USED? NO 0 YES 1 8A kg NO 0 YES 1 Other 9 Both 3 5 NETS CONNECTED? KITE PANEL LINER USED? 11 FISHING CIRCLE 71 KITE USED? CODEND MESH SIZE BRAND 39 TYPF 46 Number 12 NO 0 # MESHES 34 Unknown NO 0 15 Unknown 0 0 13 NO Width YES 0 in YES 1 mm mm Furuno® 1 Panel YES 1 Length 14 . in MESH SIZE **16__**in Simrad® 2 Opening COMMENTS GROUND GEAR 23 24 25 mm mm Northstar Tech 3 Single Flap TYPE GROUND CABLE **BRIDLE/LEG** SWEEP Notus 4 Double Flap Unknown 00 Marport Other 5 mm mm a Chain 01 Scanmar 6 Cable / Wire 02 Combination 8 46A mm mm Wrapped Cable 03 Other 9 Rock Hopper 04 mm mm Roller 39A 05 MESH SIZE 47 in Rubber Cookie LINER MESH SIZE 06 Bobbin LOCATION LENGTH 07 35 40 Plate Gear # MESHES 08 mm (check all that apply) 48 OR **49** in mm None 98 0 🗆 Other 99 Unknown WIDTH mm mm 23A 24A 25A Headrope 1 # MESHES 50 OR 51 in $2 \square$ Wings mm mm з 🗆 SWEEP GEAR FLOATS Footrope 5 🗆 52 Number 26 Number 28 Door SHAPE Type Code mm mm 6 🗆 Codend 9 🗆 27 29 mm Other LOCATION Type Code 53 Diameter Diameter in in mm 40A

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#### SCALLOP TRAWL GEAR CHARACTERISTICS LOG OBS/TRIP ID A99062-NMFS FISHERIES OBSERVER PROGRAM DATE LANDED mm/vv 06 16 OBSTG 05/01/16 PAGE # 1 OF 1 GEAR CODE GEAR NUMBER NET NAME NET TYPE NET BUILDER CODEND/LINER GEAR MOUNTED EXCLUDER/SEPARATOR DEVICE HUNG CODEND LINER ELECTRONICS 4-Seam Scallop 0 5 2 **Twin Trawl** Superior Trawl USED? NO 0 X YES 1 01 Trawl USED ? Unknown 0 NET LOCATION CONSTRUCTION MATERIAL LENGTH MEASUREMENTS Diamond 1 X NO 0 **X** TYPE CODEND Port NET BODY LINER Square YES 1 1 X Type Code 2 Starboard Unknown 00 **70** ft Headrope Square, wrapped 3 Other 9 Nylon 01 Combination 8 NUMBER OF Х Х DOORS USED? Poly 02 Footrope/Sweep **70** ft TRANSDUCERS T.E.D. EXTENSION Kevlar® 03 TWINE TYPE CODEND LINER _____ NO 0 Spectra® 04 Ground Cable **25** fm Mesh Size in YES Х 1 Tenex® 05 Unknown 0 Nomex® 06 Bridle 25 fm Single TYPE (circle one) A / E _____ WEIGHT OF ONE Combination STRENGTHENER USED? Unknown ESCAPE OUTLET 98 Double 2 X 0 DOOR Other Wired 99 Single on Top/ NO 0 X YES 1 1 USED? NO 0 X YES 1 CHAFING GEAR USED? Double on Bottom 3 Wireless 2 270 NO 0 X YES 1 Other Both 3 _kg 9 LINER USED? **NETS CONNECTED?** KITE PANEL FISHING CIRCLE BRAND TYPE KITE USED? CODEND MESH SIZE Number 3 # MESHES Unknown NO 0 **X** NO 0 60 Unknown 0 1 **X** NO Width YES 0 39 in YES 141 mm 143 mm Furuno® Panel YES 1_**X**_ Length 39 in MESH SIZE 5.5___in Simrad® 2 Opening GROUND GEAR COMMENTS 145 mm 147 mm Northstar Tech 3 Single Flap TYPE GROUND CABLE **BRIDLE/LEG** SWEEP Notus 4 Double Flap Unknown 00 145 142 mm Marport Other 5 mm Chain 01 Х Scanmar 6 Cable / Wire Х Х 143 150 Combination 8 02 mm mm Wrapped Cable 03 Other 9 Rock Hopper 04 146 mm 149 mm Roller 05 MESH SIZE in Rubber Cookie LINER MESH SIZE 06 Bobbin LOCATION LENGTH 07 Plate Gear 08 mm (check all that apply) # MESHES OR in mm None 98 0 Other 99 Unknown WIDTH mm mm Headrope 1 # MESHES OR in 2 Wings mm mm SWEEP GEAR FLOATS 3 Footrope 5 🗌 Number Number 30 Door SHAPE Type Code mm mm 6 Codend Other 9 LOCATION Type Code Diameter 10 Diameter in in mm mm

OMB Control No.: 0648-0593 Expires on: 10/31/2018

ADDITIONAL COMMENTS    EXCLUDER/SEPARATOR DEVICE TYPE CODES:    ESCAPE OUTLET SHAPE CODES:    ESCAPE OUTLET LOCATION CODES:      00 = Unknown    24 = Bent Rod T.E.D.    00 = Unknown    0 = Unknown    0 = Unknown    0 = Unknown      01 = Nordmore Grate    25 = Conch T.E.D.    01 = Rectangular    1 = Net Top    0      03 = Separator Panel    26 = Flat Bottom T.E.D.    05 = Trapezoid    2 = Net Bottom    0      04 = Guiding Device    27 = Whelk T.E.D.    06 = Square    3 = Net Side    0    0      05 = Raised Footrope    28 = Flexible T.E.D.    07 = Diamond    4 = Codend Top    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0    0 </th <th></th> <th></th> <th></th> <th></th> <th>OBS/TRIP ID</th>					OBS/TRIP ID
ADDITIONAL COMMENTS    EXCLUDER/SEPARATOR DEVICE TYPE CODES:    ESCAPE OUTLET SHAPE CODES:    ESCAPE OUTLET LOCATION CODES:      00 = Unknown    24 = Bent Rod T.E.D.    00 = Unknown    0 = Unknown    0 = Unknown      01 = Nordmore Grate    25 = Conch T.E.D.    01 = Rectangular    1 = Net Top      03 = Separator Panel    26 = Flat Bottom T.E.D.    05 = Trapezoid    2 = Net Bottom      04 = Guiding Device    27 = Whelk T.E.D.    06 = Square    3 = Net Side      05 = Raised Footrope    28 = Flexible T.E.D.    07 = Diamond    4 = Codend Top      06 = Compound Nordmore Grate    29 = Parker Soft T.E.D.    08 = Triangular    5 = Codend Bottom      07 = Double Nordmore Grate    30 = Experimental T.E.D.    09 = Semi-Circle    8 = Combination (Comment)      08 = Large Mesh    31 = Northeast Modified T.E.D.    11 = Horizontal Cut    9 = Other (Comment)      21 = Standard T.E.D.    98 = Combination (Comment)    29 = Other (Comment)    29 = Other (Comment)      22 = Weedless T.E.D.    99 = Other (Comment)    99 = Other (Comment)    91 = Net (Comment)					DATE LANDED mm/yy /
ADDITIONAL COMMENTSEXCLUDER/SEPARATOR DEVICE TYPE CODES:ESCAPE OUTLET SHAPE CODES:ESCAPE OUTLET LOCATION CODES:00 = Unknown24 = Bent Rod T.E.D.00 = Unknown0 = Unknown0 = Unknown01 = Nordmore Grate25 = Conch T.E.D.01 = Rectangular1 = Net Top03 = Separator Panel26 = Flat Bottom T.E.D.05 = Trapezoid2 = Net Bottom04 = Guiding Device27 = Whelk T.E.D.06 = Square3 = Net Side05 = Raised Footrope28 = Flexible T.E.D.07 = Diamond4 = Codend Top06 = Compound Nordmore Grate29 = Parker Soft T.E.D.08 = Triangular5 = Codend Bottom07 = Double Nordmore Grate30 = Experimental T.E.D.09 = Semi-Circle8 = Combination (Comment)08 = Large Mesh31 = Northeast Modified T.E.D.11 = Horizontal Cut9 = Other (Comment)20 = T.E.D., Unknown32 = Large Flat Bar T.E.D.99 = Other (Comment)99 = Other (Comment)21 = Standard T.E.D.99 = Other (Comment)99 = Other (Comment)22 = Weedless T.E.D.99 = Other (Comment)91 = Northeast Modified T.E.D.					PAGE # OF OF
00 = Unknown24 = Bent Rod T.E.D.00 = Unknown0 = Unknown01 = Nordmore Grate25 = Conch T.E.D.01 = Rectangular1 = Net Top03 = Separator Panel26 = Flat Bottom T.E.D.05 = Trapezoid2 = Net Bottom04 = Guiding Device27 = Whelk T.E.D.06 = Square3 = Net Side05 = Raised Footrope28 = Flexible T.E.D.07 = Diamond4 = Codend Top06 = Compound Nordmore Grate29 = Parker Soft T.E.D.08 = Triangular5 = Codend Bottom07 = Double Nordmore Grate30 = Experimental T.E.D.09 = Semi-Circle8 = Combination (Comment)08 = Large Mesh31 = Northeast Modified T.E.D.11 = Horizontal Cut9 = Other (Comment)20 = T.E.D., Unknown32 = Large Flat Bar T.E.D.99 = Other (Comment)91 = Northeast Modified T.E.D.21 = Standard T.E.D.99 = Other (Comment)22 = Weedless T.E.D.99 = Other (Comment)	ADDITIONAL COMMENTS	EXCLUDER/SEPARATOR DEVICE	TYPE CODES:	ESCAPE OUTLET SHAPE CODES:	ESCAPE OUTLET LOCATION CODES:
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05 = Raised Footrope28 = Flexible T.E.D.07 = Diamond4 = Codend Top06 = Compound Nordmore Grate29 = Parker Soft T.E.D.08 = Triangular5 = Codend Bottom07 = Double Nordmore Grate30 = Experimental T.E.D.09 = Semi-Circle8 = Combination (Comment)08 = Large Mesh31 = Northeast Modified T.E.D.11 = Horizontal Cut9 = Other (Comment)20 = T.E.D., Unknown32 = Large Flat Bar T.E.D.99 = Other (Comment)99 = Other (Comment)21 = Standard T.E.D.99 = Other (Comment)99 = Other (Comment)22 = Weedless T.E.D.99 = Other (Comment)91 = Northeast Notified T.E.D.		04 = Guiding Device	27 = Whelk T.E.D.	06 = Square	3 = Net Side
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21 = Standard T.E.D.98 = Combination (Comment)22 = Weedless T.E.D.99 = Other (Comment)		20 = T.E.D., Unknown	32 = Large Flat Bar T.E.D.	99 = Other (Comment)	
22 = Weedless 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.		23 = Flounder T.E.D.			

FOR OFFICE USE ONLY

## **Scallop Trawl Haul Log**

If the gear is set, and only partially hauled back, include the time spent hauling and resetting the net in this haul's time.

Use a <u>Scallop Trawl Off-Watch Haul Log</u> to document all hauls that occur during your off-watch period. Do not record offwatch hauls on a <u>Scallop Trawl Haul Log</u>.

For instructions on completing numbered fields not listed below, refer the Bottom Trawl Haul Log section.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
9	Net Observed	If both catch from both nets cannot	Check one	"9".
		be observed, then the haul is		
		unobserved.		
12	Sea Scallop Clappers	Yes/No.	Check one	"9".
	Observed?	If yes, a weight must be provided in		
		the species section.		

SCALLOF	P TRAWL HA	UL LOG										OBS/	TRIP ID		Α		
NMFS FIS	SHERIES OB	SERVER PRO	OGRAM									DATE	LAND (m	im/yy)	В	/	
OBSTH	OBHAU OB	SPP 05/01/1	6									PAGE	#		С	OF	
GEAR CODE	D GEAR # E	HAUL # F	HAUL OBS	? O	N-EFFORT?	CATC	H?	INC TAKE	?	WEATHER CODE	WIND		WAVE	HEIGHT	DEPTH,	GEA	R COND CODE
			NO 0 (	G NO	о с н	NO C	<u> </u>	NO 0	J		SPEED DI	RECTION			HAUL B	EGIN	
			YES 1	YE	ES 1	YES 1		YES 1		к	L kn	Μ	0	N ft	0	fm	Р
HAUL	DATE	TIME			LATITUD	E / LONGI	TUDE (DD	<b>D MM.M)</b> - LO	ORAN (X	(XXXX)	NET OBSERVED	TOW SPE	ED		WIRE O	JT	
INFO	mm/dd/yy	24 hours	Station 1	Latitu	<b>ide /</b> Bearing		Station 2	2 Lo	ongitude	/ Bearing	9	2				3	
BEGIN	Q	R	9960 -				9960 -				Port 1						
HAUL	/ /	:			S						Starboard 2			kn			fm
BEGIN FISHING	/ /	:									Both 3 Aft 4	TARGET	SPECIES			CODE	
END			0060				0060					U				v	
HAUL	/ /	:	9900 -				9900 -										
GEAR											SEA SCALLOP				N	UMBER OF	TURNS
ONBOARD	/ /	:									CLAPPERS OBS?						
COMMENTS											12					1	
											NO 0						
											YES 1				V	AIERIEM	0
																т	Ū
																•	F
									SA	MPLE WEIGHT MULTIPLI	ER VERTICAL OPENING	G ** HC	RIZONTA		G ** D	OOR SPRE	 AD **
										W	6			7	-	8	
** Only fill in if	gear mounted elec	tronics are used.			-					•		ft	-		ft		ft
	SPEC	IES					V	NEIGHT		S	PECIES	1				V	VEIGHT
				SUB-				ESTIMAT					SUB-		DICD		ESTIMATION
	NAME		CODE	WEIGHT	POUNDS	CODE	D/R	CODE		NAM	E	CODE	WEIGHT	POUNDS	CODE	D/R	CODE
	Α'		В'	C'	D'	Ε'	F'	G'									
1				·					11				·_				
2									12								
_																	
3				·•					13								
4				·					14				·_				
5									15								
c									10								
0									10				·				
7				•					17				·				
8									18								
9									10								
Ŭ			1	··				1	13			1	·				
10									20				·				

SCALLOP	TRAW	'L HAU	JL LOG											OBS/	TRIP ID			A990	13-
NMFS FIS	HERIE	S OBS	SERVER PRO	OGRAM										DATE	LAND (n	nm/yy)	(	6 /	16
OBSTH C	OBHAU	OBS	SPP 05/01/1	6										PAGE	#			1 OF	2
GEAR CODE	GEA	R #	HAUL #	HAUL OBS	? ON	N-EFFORT?	CATC	H?	INC TAKE?	?	WEATHER CODE		WIND		WAV	E HEIGHT	DEPTH,	GEA	R COND CODE
				NO 0	NC	0 0	NO 0	)	NO 0	Х		SPEED	DI	RECTION			HAUL B	EGIN	
0 5 2	0	1	0 2 1	YES 1	( YE	S1 X	YES 1	<u>X</u>	YES 1						0				
											01	10	kn	90		2 ft	35	fm	010
HAUL	DATE		TIME			LATITUD	E / LONG	TUDE (DD	) MM.M) - LC	ORAN (	(XXXXX)	NET OBSE	RVED	TOW SPE	ED		WIRE O	JT	
INFO	mm/dd/yy	1	24 hours	Station 1	Latitu	de / Bearing		Station 2	Lo	ongitud	e / Bearing								
BEGIN				9960 -				9960 -				Port	1						
HAUL	06 / 1	2 / 16	12 : 25			35 ° 38.	3				75 ° 17.3	Starboard	2		3.1	kn		75	fm
BEGIN	00 / 4	0 / 40										Both	3 <u>X</u>	TARGET	SPECIES			CODE	
FISHING	06/1	2 / 16	22:01									Aft	4						
END	06 / 4	2 / 16		9960 -			-	9960 -						Sea So	callops			8009	
	00 / 1	3 / 10	01:16			35 ° 34.	2				75 ° 19.9	054.0041	0.0						
GEAR	06 / 1	3 / 16	04.00									SEA SCAL					N	UMBER OF	IURNS
	00 / 1	5 / 10	01:32									CLAPPERS	OB25						
COMMENTS												NO	0					1	
												VES	0 1 <b>X</b>				14		>
												120		_1					ο
																		60.0	F
										SA	AMPLE WEIGHT MULTIPLI	ER VERTICAL	OPENING	G ** HC	RIZONTA		G ** D	OOR SPRE	\D **
** Only fill in if	gear mour	nted elect	tronics are used.								·		6	ft		12	ft	15	ft
		SPECI	ES					V	VEIGHT		S	PECIES						W	EIGHT
					SUB-				ESTIMATI	ION					SUB-				ESTIMATION
	N			CODE	SAMPLE		DISP	D/P	METHO	D	NAM	=		CODE	SAMPLE		DISP	D/P	METHOD
	11/			CODL	WEIGHT	TOUNDS	CODL	D/IX	CODL					CODL	WLIGHT		CODL	D/IX	CODE
1 Sea So	allops			8009		49	100	D	03	11					_				
2 Sea So	allops					16	002	R	04	12									
₃ <b>Monkf</b> i	ish (tails)				·	26	100	D	01	13									
4 Yellow	tail Flou	nder			<b>·</b>	13	100	R	01	14					·				
5 Sand D	Dollar				<u> </u>	70	001	R	06	15									
6 Clappe	ers, Scall	ор			·	10	054	R	06	16	i				·				
7 Little S	Skate				•	22	001	R	01	17									
8					•					18									
9					•	-		+		19				+	·•				+
10										20									
10										20				1					

OMB Control No.: 0648-0593 Expires on: 10/31/2018

## Scallop Trawl Off-Watch Haul Log

This log is to be used for recording dates, times, locations, and the amount of kept sea scallops for **off-watch** hauls on scallop trawl gear trips. Complete a single section for each off-watch period.

If you are aware of an incidental take of a marine mammal, sea turtle, or seabird during an off-watch period, complete as many fields as possible on a <u>Scallop Dredge Haul Log</u> in addition to completing a <u>Marine Mammal, Sea Turtle, and Seabird</u> <u>Incidental Take Log</u>.

Fields 1, 2, 4, 6, and 8 should be completed **before** going off watch. Fields 3, 5, 7, 9, and 10 should be completed **after** your off-watch ends (i.e., before coming back on-watch).

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Watch Number	Sequential by order off-watch	2-digit code	Cannot be unknown.
		number.		
2	First Haul Number	First haul of off-watch period.	3-digit code	Cannot be unknown.
3	Last Haul Number	Last haul of off-watch period.	3-digit code	Cannot be unknown.
4	First Haul Begin Date	See Appendix C – Set/Haul Time Definitions.	MM/DD/YY	Cannot be unknown.
5	Last Haul End Date	See Appendix C – Set/Haul Time Definitions.	MM/DD/YY	Cannot be unknown.
6	First Haul Begin Time	See Appendix C – Set/Haul Time Definitions.	HH:MM (24hr)	Dash.
7	Last Haul End Time	See Appendix C – Set/Haul Time Definitions.	HH:MM (24hr)	Dash.
8	First Haul Begin	See Appendix C – Set/Haul Time	Latitude/Longitude,	3-digit statistical area
	Position	Definitions.	to the nearest tenth	See Appendix A –
		See Appendix D – Conversion	of a minute	Northeast Statistical
		Tables.	OR	Areas.
			LORAN station bearings	
9	Last Haul End Position	See Appendix C – Set/Haul Time	Latitude/Longitude,	3-digit statistical area
		Definitions.	to the nearest tenth	See Appendix A –
		See Appendix D – Conversion	of a minute	Northeast Statistical
		Tables.	OR	Areas.
			LORAN station	
			bearings	
10	Average Number of	Obtain from captain.	Whole baskets	Dash.
	Basket Kept			

#### SCALLOP TRAWL OFF-WATCH HAUL LOG NIMES EIGHEDIES ODSEDVED DD 000444

NMFS			BSERVER PROGR	AM			D	ATE LANDED mm/yy	
OB21	0 08	HAU 05/	/01/16		1		P	AGE #	C of
WAICH	# 1	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.N	I) - LORAN (XXXXX)	SEA SCALLOPS
	1	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
HAUL	2	BEGIN	4	: 6	9960-	8	9960-		10
LAST HAUL	3	END	5	: 7	9960-	9	9960-		
WATCH	#	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.N	I) - LORAN (XXXXX)	SEA SCALLOPS
2	2	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN			9960-		9960-		KEPT (AVERAGE)
HAUL			/ /	-					
LAST		END		:	9960-		9960-		
HAUL WATCH	#	MATON	/ /						
	3		DATE	1 IME	Station 1	LATITUDE / LONG	Station 2	I) - LURAN (XXXXX)	# OF BASKETS
FIRST	5	BEGIN	iiiii/dd/yy	24110013		Latitude / Dealing		Longitude / Deaning	KEPT (AVERAGE)
HAUL		-	/ /	:	9960-		9960-		( - )
LAST		END			9960-		9960-		
HAUL			/ /	-					
WATCH	#	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.N	I) - LORAN (XXXXX)	SEA SCALLOPS
	4	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN		:	9960-		9960-		KEPT (AVERAGE)
		END	1 1						
HAUL		LIND	/ /	:	9960-		9960-		
WATCH	#	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.N	I) - LORAN (XXXXX)	SEA SCALLOPS
ŧ	5	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN		:	9960-		9960-		KEPT (AVERAGE)
HAUL			/ /						
LAST		END		:	9960-		9960-		
HAUL WATCH	#	МАТСН							
6		INFO	mm/dd/vv	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN			0060	Lantado / Boaning	0060	g.uute / Boarnig	KEPT (AVERAGE)
HAUL			1 1	•	9960-		9960-		,
LAST		END		:	9960-		9960-		
HAUL	ш		/ /						
WATCH	#	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.N	I) - LORAN (XXXXX)	SEA SCALLOPS
	7	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
HALII		BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGE)
LAST		END	, ,		0000		0000		
HAUL			/ /	-	9960-		9960-		
WATCH	#	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.N	I) - LORAN (XXXXX)	SEA SCALLOPS
8	8	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN		:	9960-		9960-		KEPT (AVERAGE)
HAUL		END	/ /						
		END		:	9960-		9960-		
WATCH	#	WATCH	DATE	TIME		LATITUDE / LONG		1) - I ORAN (XXXXX)	SEA SCALLOPS
ç	9	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN			9960-	×	9960-		KEPT (AVERAGE)
HAUL			/ /	•	3300-		5500-		
LAST		END		:	9960-		9960-		
	#	<u> </u>	/ /						
WAICH	"# 0	WATCH		TIME	Charlie 1	LATITUDE / LONG	ITUDE (DD MM.N	I) - LORAN (XXXXX)	SEA SCALLOPS
( FIPet	U	BEGIN	πιπ/αα/уу	∠4 nours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	
HAUI		DEGIN	/ /	:	9960-		9960-		NEFT (AVERAGE)
LAST		END			0060		0060		
HAUL			/ /	-	3900-		9900-		

OBS/TRIP ID

Α

# SCALLOP TRAWL OFF-WATCH HAUL LOG

NMF	s fish	ERIES O	BSERVER PROGR	AM			D	ATE LANDED mm/yy	05 / 16
OBS	го ов	HAU 05	/01/16				P	AGE #	1 of 2
WATCH	1#	WATCH	DATE	TIME		LATITUDE / LONGITU	UDE (DD MM.N	<b>I)</b> - LORAN (XXXXX)	SEA SCALLOPS
0	1	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	٩	BEGIN			9960-		9960-		KEPT (AVERAGE)
HAUL	-		05 / 06 / 16	00:00		41°07.2		69°22.8	
LAST	15	END			9960-		9960-		30
HAUL	10		05 / 07 / 16	06:00		41°08.3		69°25.6	
WATCH	1#	WATCH	DATE	TIME		LATITUDE / LONGITU	UDE (DD MM.N	<b>I)</b> - LORAN (XXXXX)	SEA SCALLOPS
0	2	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	21	BEGIN			9960-		9960-		KEPT (AVERAGE)
HAUL	21		05 / 07 / 16	12:00	5500	41°08.3	3300	69°25.6	
LAST	27	END			0060-		9960-		40
HAUL	21		05 / 07 / 16	18:00	3300-	41°07.4	3300-	69°22.3	
WATCH	1#	WATCH	DATE	TIME		LATITUDE / LONGITU	UDE (DD MM.N	<b>I)</b> - LORAN (XXXXX)	SEA SCALLOPS
0	3	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	22	BEGIN			0060		0060		KEPT (AVERAGE)
HAUL	- 35		05 / 08 / 16	00:00	9900-	41° 07.4	9900-	69°22.3	
LAST	30	END			0060		0060		35
HAUL	39		05 / 08 / 16	06:00	9900-	41°07.9	9900-	69°24.9	
WATCH	1#	WATCH	DATE	TIME		LATITUDE / LONGITU	UDE (DD MM.N	<b>I)</b> - LORAN (XXXXX)	SEA SCALLOPS
0	4	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST	AE	BEGIN			0060		0060		KEPT (AVERAGE)
HAUL	45		05 / 08 / 16	12:00	9960-	41°07.9	9960-	69°24.9	,
LAST	54	END			0000		0000		35
HAUL	51		05 / 08 / 16	18:00	9960-	41°06.9	9960-	69°21.5	
WATCH	#	WATCH	DATE	TIME		LATITUDE / LONGITU	UDE (DD MM.N	I) - LORAN (XXXXX)	SEA SCALLOPS
0	5	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN			0000		0000		KEPT (AVERAGE)
HAUL	57	_	05 / 09 / 16	00:00	9960-	41° 06.9	9960-	69°21.5	· · · · ·
LAST		END							50
HAUL	63		05 / 09 / 16	06:00	9960-	41° 07.6	9960-	69°23.4	
WATCH	1#	WATCH	DATE	TIME		LATITUDE / LONGITU	UDE (DD MM.N	I) - LORAN (XXXXX)	SEA SCALLOPS
0	6	INFO	mm/dd/vv	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN							KEPT (AVERAGE)
HAUI	69		05 / 09 / 16	12:00	9960-	41° 07.6	9960-	69°23.4	
LAST		END							45
HAUL	75		05 / 09 / 16	18:00	9960-	41° 07.2	9960-	69°22.8	
WATCH	1#	WATCH	DATE	TIME		LATITUDE / LONGITU	UDE (DD MM.N	I) - LORAN (XXXXX)	SEA SCALLOPS
0	7	INFO	mm/dd/vv	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN	initi, da, j j	21110010		g	etation 2	g	KEPT (AVERAGE)
HAUL	81	220	05 / 10 / 16	00:00	9960-	41°06.9	9960-	69°21.5	
LAST		FND							55
HAUL	87	2.10	05 / 10 / 16	06:00	9960-	41° 07.2	9960-	69°22.8	
WATCH	#	WATCH	DATE	TIME		LATITUDE / LONGITU			SEA SCALLOPS
o	8	INFO	mm/dd/vv	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN	inin/dd/yy	2 THOUS	Oldlorr	Eutitude / Bouring	Oldlion 2	Longitude / Doaning	KEPT (AVERAGE)
нації	93	DEGIN	05 / 10 / 16	12.00	9960-	41° 07 9	9960-	69°249	
LAST		END		12.00		41 0110		00 240	55
HALII	99		05 / 10 / 16	18.00	9960-	41° 07 2	9960-	69° 22 8	
WATCH	1#	WATCH							SEA SCALLOPS
0	٥		mm/dd/w/	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
EIDET	9	RECIN	mm/dd/yy	24 110015	Station	Latitude / Dearing	Station 2	Longitude / Deaning	
нали	105	BLOIN	05 / 11 / 16	06.00	9960-	11° 06 0	9960-	60° 21 F	(AVENAGE)
LACT			03 / 11 / 10	00.00		71 00.3		03 21.3	50
	111	END	05 / 11 / 16	10.00	9960-	41° 07 0	9960-	60° 24 0	50
WATCH	1#	MATCH		12:00					
4		WAICH			Charlie - 4	LATTUDE / LUNGITU			SEA SUALLOPS
	U		mm/du/yy	24 HOUIS	Station 1	Lauruue / Bearing	Station 2	Longitude / Bearing	# UF BASKEIS
FIRST	117	BEGIN	0E / 44 / 40	40.00	9960-	449 00 0	9960-	60° 05 0	KEPI (AVERAGE)
HAUL		END	<u>U5 / 11 / 16</u>	18:00		41° 08.3		69° 25.6	
LAST	123	END	05 / 44 / 40		9960-	440.00.0	9960-	CO0. 04 E	45
HAUL		1	U5 / 11 / 16	00:00		41° 06.9		69° 21.5	

OBS/TRIP ID

A99012-

### Scallop Dredge Gear Characteristics Log

A scallop gear is defined as a distinct combination of scallop dredges (port and starboard or aft) deployed during the trip. If two dredges are deployed at the same time (i.e., port and starboard), describe both dredges on a single <u>Scallop Dredge</u> <u>Gear Characteristics Log</u>.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Gear Number	Unique identifier for each dredge or	2-digit code	Cannot be unknown.
		pair of dredges fished together.		
2	Dredge Fished Aft	Visually confirm dredge was fished off	Check box	Cannot be unknown.
		the stern.		Leave blank if not
				fished aft.
3	Frame Type	Visually confirm and verify with	Check one	"0".
		captain.		
4	Frame Height	Measure.	Whole inches	Dash.
		Does not include shoes.		
5	Frame Width	Measure.	Whole feet	Dash.
6	Rock Chains Used?	Yes/No.	Check one	"9".
7	Number of Rock Chains	Count.	Whole number	Dash.
		If spider chains, dash and comment		
		on number of rock chains between		
		each tickler chain.		
8	Tickler Chains Used?	Yes/No.	Check one	"9".
9	Number of Tickler	Count.	Whole number	Dash.
	Chains Used?			
10	Chain Configuration	Visually confirm and verify with	Check one	"0".
		captain.		
11	Twine Top Mesh Size	Measure with calipers.	Whole	Dash.
			millimeters	
12	# Meshes Wide	Count.	Whole number	Dash.
13	# Meshes Long	Count.	Whole number	Dash.
14	Twine Top Hung	Visually confirm.	Check one	"0".
15	# Rings on Which Twine	Count.	Whole number	Dash.
	Top Hangs			
16	Chafing Gear Used?	Yes/No.	Check one	"9".
17	# Rows of rings in Apron	Count.	Whole number	Dash.
18	Inside ring size, Top of	Measure with calipers.	Whole	Dash.
	Bag		millimeters	
19	Inside ring size, Bottom	Measure with calipers.	Whole	Dash.
	of Bag		millimeters	
20	Turtle Chain Mat	If turtle chain mat, check yes or no for	Check one for	Leave blank if not
	Verification	each verification comment.	each	turtle chain mat.

SCALLOP DREDGE GEAR CHARACTERIST	ICS LOG				OBS/TRIP ID	Α
NMFS FISHERIES OBSERVER PROGRAM					DATE LANDED mm/yy	B /
OBSDG 05/01/16					PAGE #	C OF
GEAR CODE	GEAR NUMBER(s)			If the dredge is fished off t	he stern, check box here	
		1		2		
				AFT (A)		
	I	I				
			# MESHES	PORT DREDGE COMMENTS		
FRAME LIPE 3	USED? NO YES NUMBER	MESH SIZE II	WIDE 12		20	
Standard 1	ROCK 6 0 1 7	mmmm		TURTI E CHAIN MAT VE	RIFICATION NO YES	
TDD 2 FRAME WIDTH 5 ft	TICKI FR 8 0 1 9	·	LONG 13	Captain confirmed turtle d	hain mat	
Other 9		mm mm		Intersections connected w	/ith links	
—	CONFIGURATION 10		HUNG 14	All openings 14" or less		
	STANDARD 1	mmmm	Unknown 0			
	TURTLE CHAIN MAT 2		Diamond 1			
CHAIN BAG		mmmm	Square 2			
			Combination 8			
CHAFING GEAR USED? 16		mmmm				
			# RINGS ON WHICH			
YES 1	INSIDE RING SIZE (MM) (5 random measurements)		TWINE TOP HANGS 13			
	(o random modouromonito)					
	TOP OF					
	BAG <u>18</u>					
# ROWS IN APRON <u>17</u>						
	BOTTOM <u>19</u>					
	OF BAG					
STARBOARD DREDGE (S)						
DREDGE FRAME	CHAINS	TWINE TOP	# MESHES	STARBOARD DREDGE COMME	INTS	
FRAME TYPE	USED? NO YES NUMBER	MESH SIZE				
Unknown 0 FRAME HEIGHT in			WIDE			
Standard 1	ROCK 0 1	mmmm		TURTLE CHAIN MAT VE	RIFICATION NO YES	
TDD 2 FRAME WIDTHft	TICKLER 0 1	-	LONG	Captain confirmed turtle c	hain mat	
Other 9		mmmm		Intersections connected w	ith links	
			HUNG	All openings 14" or less		
		mmmm	Diamand 1			
	TORTLE CHAIN MAT 2					
CHAIN BAG		mmmm	Square 2			
CHAFING GEAR USED?		mm mm				
NO 0			# RINGS ON WHICH			
YES 1	INSIDE RING SIZE (mm)		TWINE TOP HANGS			
	(5 random measurements)			]		
	TOP OF					
	BAG					
# ROWS IN APRON						
	BOTTOM					
	OF BAG					
				1		

SCALLOP DREDGE GEAR CHARACTER NMFS FISHERIES OBSERVER PROGRA OBSDG 05/01/16	RISTICS LOG M				OBS/TRIP ID DATE LANDED mm/yy	A99012- 05 / 16
GEAR CODE	GEAR NUMBER(s) 1			If the dredge is fished off AFT (A)	f the stern, check box here	
PORT DREDGE (P)        DREDGE FRAME        FRAME TYPE        Unknown      0        Standard      1        TDD      2 X        FRAME WIDTH      13        Other      9        CHAIN BAG        CHAFING GEAR USED?        NO      0        YES      1        X	CHAINS      USED?    NO    YES    NUMBE      ft    ROCK    0    1    X    9      ft    TICKLER    0    1    X    6      CONFIGURATION    STANDARD    1	TWINE TOP      MESH SIZE      258    mm    254    mm      261    mm    256    mm      255    mm    259    mm      254    mm    259    mm      254    mm    259    mm      254    mm    257    mm      5    103    10      6    104    10	# MESHES        WIDE      75        LONG      6        HUNG      Unknown        Unknown      1        X      Square        Square      2        Combination      8        # RINGS ON WHICH      TWINE TOP HANGS        32      105        3      104	PORT DREDGE COMMENTS TURTLE CHAIN MAT V Captain confirmed turtle Intersections connected All openings 14" or less Captain said squares equ See photos for TDD dred bars and 1 center bar. Conthe pressure plate.	ERIFICATION NO YES chain matX with linksX X Jal 12 inches on each side ge. Dredge had 2 outside bail utting bar as positioned forward of	of
STARBOARD DREDGE (S) DREDGE FRAME FRAME TYPE	OF BAG CHAINS USED? NO YES NUMBE	TWINE TOP R MESH SIZE	# MESHES	STARBOARD DREDGE COMM	IENTS	
Unknown      0      FRAME HEIGHT      19        Standard      1	in	254 mm 255 mm 254 mm 255 mm 257 mm 256 mm	WIDE      77        LONG      7        HUNG	TURTLE CHAIN MAT V Captain confirmed turtle Intersections connected All openings 14" or less	ERIFICATION NO YES chain mat <u>X</u> with links <u>X</u>	
CHAIN BAG CHAFING GEAR USED? NO 0 YES 1 X	INSIDE RING SIZE (mm) (5 random measurements) TOP OF BAG <u>103</u> 10	255 mm 260 mm 255 mm 259 mm 5 102 10	Square      2        Combination      8        # RINGS ON WHICH      1000000000000000000000000000000000000	Same comments as port	dredge	
# ROWS IN APRON	BOTTOM <u>102 10</u> OF BAG	3 105 10	4 103			

ADDITIONAL COMMENTS, PORT DREDGE
ADDITIONAL COMMENTS, PORT DREDGE
ADDITIONAL COMMENTS, PORT DREDGE
ADDITIONAL COMMENTS STARBOARD DREDGE

## **Scallop Dredge Haul Log**

If the gear is set, and only partially hauled back, include the time spent hauling and resetting the net in this haul's time.

Use a <u>Scallop Trawl Off-Watch Haul Log</u> to document all hauls that occur during your off-watch period. Do not record offwatch hauls on a <u>Scallop Dredge Haul Log</u>.

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
1	Dredge Observed	Visually confirm.	Check one	"0".
2	Tow Speed	Obtain from captain average tow speed during tow.	Knots, to the nearest tenth	Dash.
3	Wire Out	Obtain from captain.	Whole Fathoms	Dash.
4	Sea Scallop Clappers Observed?	Yes/No. Visually confirm and obtain weight estimate.	Check one	"9".
5	Grey Meats or Parasites Observed?	Yes/No. Visually confirm and obtain weight estimate.	Check one	"9".

SCALLOF	P DREDGE H	AUL LOG											OBS/ T	rip id		Α		
NMFS FIS	SHERIES OBS	SERVER PRO	DGRAM										DATE I	_AND (mr	m/yy)	В	/	
OBSDH	OBHAU OB	SPP 05/01/1	6							-			PAGE	#		C	OF	
GEAR CODE	GEAR # E	HAUL # F	HAUL OB	S? ON	I-EFFORT?	CATCH	?	INC TA	KE?	WEATHER CODE		WIND		WAVE	HEIGHT	DEPTH,	GEAR	CONDITION
			NO 0	G NC	0 <u>H</u>	NO 0		NO 0	J		SPEED .	D	IRECTION	0		HAUL BEO	GIN CODE	_
	2		YES 1	YE	S1	YES 1		YES 1		ĸ	L	kn	IVI	0	IN ft	Ŭ	fm	Р
HAUL/FISHIN		TIME			LATITUDE /	LONGITUDE	E (DD MI	M.M) - LOR	AN (XXXX	<x)< td=""><td>DREDGE</td><td>101</td><td>TOW SPEE</td><td>D</td><td>WIRE C</td><td>DUT</td><td>WATER T</td><td>EMP</td></x)<>	DREDGE	101	TOW SPEE	D	WIRE C	DUT	WATER T	EMP
INFO	mm/dd/yy	24 hours	Station 1	Latitude /	Bearing			Station 2	.ongitude	/ Bearing	OBSERVE	ED 1	2		3	5	т	0
BEGIN	Q	R	9960 -		S		ę	9960 -										
HAUL	/ /	:									Port	1		•	kn	fm	•	F
BEGIN FISHING	1 1										Starboard Both	2 3	TARGET S	PECIES			CODE	
END	, ,		0060					2060			Aft	4	U				v	
HAUL	1 1	:	9960 -				\$	9960 -										
GEAR											SEA SCAI	LLOP	GREY MEA	TS OR				
ONBOARD	/ /	:									CLAPPER	S OBS?	PARASITE	S OBS?				
COMMENTS											NO	4		•				
											YES	0 1	YES	0 1				
												·	1.==	·	1			
																SAMPLE V	WEIGHT MU	JETIPLIER
	SPECI	ES					٧	VEIGHT			SPECIES						WE	IGHT
				SUB-		DISD		EST	r OD					SUB-		DIED		EST
	NAME		CODE	WEIGHT	POUNDS	CODE	D/R	COD	E	NAM	ЛE		CODE	WEIGHT	POUNDS	CODE	D/R	CODE
	Α'		В'	C'	D'	E'	F'	G'										
1								_	11					<u> </u>	-		-	
2									12									
3				·					13					<u> </u>				
4									14									
-									45									
5				·					15					·•				
6				·					16					•				
7									17									
8				·'					18					·			-	
9				·					19					•				
10									20									

SCALLOF	P DREDGE H	IAUL LOG												OBS/ T	rip id			A9901	2-
NMFS FIS	SHERIES OB	SERVER PRO	DGRAM											DATE	AND (mn	n/yy)	0	5 /	16
OBSDH	OBHAU OF	SPP 05/01/1	6				-				1			PAGE	# 			1 OF	2
GEAR CODE	GEAR #	HAUL #	HAUL OB	S? ON	-EFFORT?	CATCH	?	INC TA	KE?	WEATHER CODE	ODEED		WIND	IDECTION	WAVE	HEIGHT	DEPTH,	GEAR	CONDITION
1 3 2	0 1	1 4 5			0			NO U		01	SPEED		U	IRECTION	0		HAUL BE	GIN CODE	
			1231	<u>~</u>  'E'	<u> </u>	1231		TES I				5	kn	0	-	<b>3</b> ft	35	fm	710
HAUL	DATE	TIME			LATITUDE /	LONGITUD	E (DD M	IM.M) - LOF	RAN (XX)	(XX)	DRE	DGE		TOW SPEE	D	WIRE	OUT	WATER 1	EMP
INFO	mm/dd/yy	24 hours	Station 1	Latitude /	Bearing			Station 2	Longitud	e / Bearing	OBS	ERVED							о
BEGIN			9960 -					9960 -											
HAUL	05 / 12 / 16	05 : 00			41 ° 07	7.2				69 ° 22.8	Port	1	۱ <u> </u>	3	. 5	kn	<b>100</b> fm	58 •	<b>0</b> F
BEGIN											Start	board 2	<u>2</u>	TARGET S	PECIES			CODE	
FISHING	05/12/16	05 : 06		1							Both	3	3 <u>X</u>						
END	05 / 12 / 16	05 55	9960 -		44 % 07		1	9960 -		69 ° 23 0	Aft	2	¹	Sea Sca	allops			8009	
	037 12 7 10	05 : 55			41 07	.3				03 23.0	SEA	SCALLO	סו						
	05/12/16	06 : 08									CLA	PPERS (	DBS?	PARASITE	S OBS?				
COMMENTS	1		1								02.				0000				
											NO	(	)(	NO	0 <u>X</u>				
											YES	1	<u>X</u>	YES	1				
																	SAMPLE	VEIGHT MI	ILTIPLIER
						•											_	<u>5 4 2</u>	
	SPEC	CIES	1				١	WEIGHT			SPECIE	S						WE	IGHT
				SUB-		DISP		ES METH							SUB-		DISP		EST METHOD
	NAME		CODE	WEIGHT	POUNDS	CODE	D/R	COL	DE	NA	ME			CODE	WEIGHT	POUNDS	CODE	D/R	CODE
1 Sea Sea	callops		8009	·	169	100	D	03	<b>3</b> 11						<u> </u>				
Manla	(i.e.k. (i.e.il)				20	100													
	rish (tali)			·	29	100	U	01	12						<u> </u>				
3 Monkf	fish				18	012	R	01	13										
					10	0.2			10						·				
4 Yellow	vtail Flounder				6.4	100	R	01	14						·				
5 Shells	s, nk			<u>_26_0</u>	141	054	R	02	<b>2</b> 15						<u>`</u>				
6 Starfis	sh, Seastar, nk			12 5	68	001	R	02	<b>2</b> 16						·		-		
7 Dahria	Book				1 000	053	Б												
	S, RUCK			·	1,000	003	ĸ	06	<b>)</b> 17										
8 Little	Skate			7.3	40	001	R	02	2 18										
									- 10								1		
9 Clapp	ers, Scallop			14_0	76	054	R	02	2 19										
	<b>.</b>																		
10 Jonah	rab			1 6	9	001	R	02	2 20										

# Scallop Dredge Off-Watch Haul Log

This log is to be used for recording dates, times, locations, and the amount of kept sea scallops for **off-watch** hauls on scallop dredge gear trips. Complete a single section for each off-watch period.

If you are aware of an incidental take of a marine mammal, sea turtle, or seabird during an off-watch period, complete as many fields as possible on a <u>Scallop Dredge Haul Log</u> in addition to completing a <u>Marine Mammal, Sea Turtle, and Seabird</u> <u>Incidental Take Log</u>.

Fields 1, 2, 4, 6, and 8 should be completed **before** going off watch. Fields 3, 5, 7, 9, and 10 should be completed **after** your off-watch ends (i.e., before coming back on-watch).

Field #	Name	Collection Type/	Linits/	Unknown Values
	Nume	Special Instructions	Format	Onknown values
1	Watch Number	Sequential by order off watch	2 digit codo	Cannot be unknown
T	watch Number	Sequential by order on-watch	2-digit code	Califiot be uliknown.
		number.		
2	First Haul Number	First haul of off-watch period.	3-digit code	Cannot be unknown.
3	Last Haul Number	Last haul of off-watch period.	3-digit code	Cannot be unknown.
4	First Haul Begin Date	See Appendix C – Set/Haul	MM/DD/YY	Cannot be unknown.
		Time Definitions.		
5	Last Haul End Date	See Appendix C – Set/Haul	MM/DD/YY	Cannot be unknown.
		Time Definitions.		
6	First Haul Begin Time	See Appendix C – Set/Haul	HH:MM (24hr)	Dash.
		Time Definitions.		
7	Last Haul End Time	See Appendix C – Set/Haul	HH:MM (24hr)	Dash.
		Time Definitions.		
8	First Haul Begin Position	See Appendix C – Set/Haul	Latitude/Longitude, to	3-digit statistical area
		Time Definitions.	the nearest tenth of a	See Appendix A –
		See Appendix D – Conversion	minute	Northeast Statistical
		Tables.	OR	Areas.
			LORAN station bearings	
9	Last Haul End Position	See Appendix C – Set/Haul	Latitude/Longitude, to	3-digit statistical area
		Time Definitions.	the nearest tenth of a	See Appendix A –
		See Appendix D – Conversion	minute	Northeast Statistical
		Tables.	OR	Areas.
			LORAN station bearings	
10	Average Number of	Obtain from cantain	Nearest whole basket	Dash
10	Rocket Kent		incarest whole basket	50511.
	Dasket Kept			
# SCALLOP DREDGE OFF-WATCH HAUL LOG

NMFS F	-ISHER	IES OB	SERVER PROC	GRAM				DATE LANDED mm/yy	В	/
OBSDC	O OBH	AU 05/0	01/16					PAGE #	C	of
WATCH #	1 w	ATCH	DATE	TIME		LATITUDE / LONGI	TUDE (DD MN	I.M) - LORAN (XXXXX)		SEA SCALLOPS
1	IN	IFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station	2 Longitude / Bearing		# OF BASKETS
FIRST HAUL	<b>2</b> BE	EGIN	<b>4</b> / /	: 6	9960-	8	9960-			KEPT (AVERAGE) 10
LAST HAUL	3 ^{E1}	ND	5	: 7	9960-	9	9960-			
WATCH #	w	ATCH	DATE	TIME		LATITUDE / LONGI	TUDE (DD MN	I.M) - LORAN (XXXXX)		SEA SCALLOPS
2	IN	IFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station	2 Longitude / Bearing		# OF BASKETS
FIRST	BE	EGIN			9960-		9960-			KEPT (AVERAGE)
HAUL			/ /		5500		3300			-
LAST HAUL —	EI	ND		:	9960-		9960-			
WATCH #	W	ATCH	DATE	TIME		LATITUDE / LONGI	TUDE (DD MN	I.M) - LORAN (XXXXX)		SEA SCALLOPS
3	IN	IFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station	2 Longitude / Bearing		# OF BASKETS
FIRST HAUL	BE	EGIN	/ /	:	9960-		9960-			KEPT (AVERAGE)
	EI	ND		:	9960-		9960-			
WATCH #		АТСН	, , DATE	TIME		LATITUDE / LONGI				SEA SCALLOPS
4	IN	IFO	mm/dd/w	24 hours	Station 1	Latitude / Bearing	Station	2 Longitude / Bearing		# OF BASKETS
FIRST	BE	EGIN	inini, ddi yy		9960-	Lunute / Doaning	9960-			KEPT (AVERAGE)
				· ·						-
HAUL	E	ND	/ /	:	9960-		9960-			
WATCH #	W	ATCH	DATE	TIME		LATITUDE / LONGI	TUDE (DD MN	I.M) - LORAN (XXXXX)		SEA SCALLOPS
5	IN	IFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station	2 Longitude / Bearing		# OF BASKETS
FIRST	BE	EGIN	1 1	:	9960-		9960-			KEPT (AVERAGE)
LAST	EI	ND		:	9960-		9960-			
HAUL WATCH #		ATOU								
6	VV IN		DATE mm/dd/w/		Station 1	LATITUDE / LONGI	Station			# OF BASKETS
FIRST	BE	EGIN	mm/dd/yy	24 110015	Station	Latitude / Deaning	Station			KEPT (AVERAGE)
HAUL			/ /		9960-		9960-			-
LAST HAUL —		ND	/ /	:	9960-		9960-			
WATCH #	W	ATCH	DATE	TIME		LATITUDE / LONGI	TUDE (DD MN	I.M) - LORAN (XXXXX)		SEA SCALLOPS
7	IN	IFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station	2 Longitude / Bearing		# OF BASKETS
FIRST	BE	EGIN		:	9960-		9960-			KEPT (AVERAGE)
LAST	E	ND		:	9960-		9960-			-
			/ /							
WAICH#	W	ATCH	DATE	TIME		LATITUDE / LONGI	TUDE (DD MN	I.M) - LORAN (XXXXX)		SEA SCALLOPS
FIRST	BE	IFO EGIN	mm/dd/yy	24 hours	Station 1 9960-	Latitude / Bearing	Station 9960-	2 Longitude / Bearing		# OF BASKETS KEPT (AVERAGE)
HAUL		ND	/ /							-
HAUL -		12	/ /	:	9960-		9960-			
WATCH #	w	ATCH	DATE	TIME		LATITUDE / LONGI	TUDE (DD MN	I.M) - LORAN (XXXXX)		SEA SCALLOPS
9	IN	IFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station	2 Longitude / Bearing		# OF BASKETS
FIRST HAUL	BE	EGIN	/ /	:	9960-		9960-			KEPT (AVERAGE)
LAST	EI	ND		:	9960-		9960-			
WATCH #		АТСН	/ / DATE							SEA SCALLOPS
0	IN	IFO	mm/dd/vv	24 hours	Station 1	Latitude / Bearing	Station	2 Longitude / Bearing		# OF BASKFTS
FIRST	BE	EGIN		:	9960-		9960-			KEPT (AVERAGE)
HAUL		ND	/ /		00000		0000			4
HAUL		-	/ /	:	9960-		9960-			

OBS/TRIP ID

Α

## SCALLOP DREDGE OFF-WATCH HAUL LOG

NMFS FISH	ERIES OF	BSERVER PROGRA	AM			D	ATE LANDED mm/yy	05	/ 16
OBSDO OB	HAU 05/	01/16				P	AGE #	1	of <b>2</b>
WATCH #	WATCH	DATE	TIME		LATITUDE / LONGITU	DE (DD MM.N	I) - LORAN (XXXXX)		SEA SCALLOPS
_ <b>0</b> _1	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST 009	BEGIN			9960-		9960-			KEPT (AVERAGE)
HAUL		05 / 06 / 16	00:00		41° 07.2		69°22.8		
LAST 0 1 5	END			9960-	440.000	9960-			30
HAUL		05 / 07 / 16	06:00		41° 08.3		69° 25.6		054 00411 000
0.0	WATCH			Chatian 4	LATITUDE / LONGITU		I) - LORAN (XXXXX)		SEA SCALLOPS
		mm/dd/yy	24 nours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
	BEGIN	05 / 07 / 16	12.00	9960-	41° 08 3	9960-	69° 25 6		KEFT (AVERAGE)
	END	03 / 0/ / 10	12.00		41 00.5		03 23.0		40
HAUL 0 2 7		05 / 07 / 16	18:00	9960-	41° 07.4	9960-	69°22.3		-10
WATCH #	WATCH	DATE	TIME		LATITUDE / LONGITUI	DE (DD MM.N	I) - LORAN (XXXXX)		SEA SCALLOPS
<b>0</b> 3	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	:	# OF BASKETS
FIRST 033	BEGIN			9960-		0060-			KEPT (AVERAGE)
HAUL		05 / 08 / 16	00:00	3300-	41° 07.4	3300-	69°22.3		
LAST 039	END			9960-		9960-			35
HAUL		05 / 08 / 16	06:00		41°07.9		69°24.9		
WATCH #	WATCH	DATE	TIME		LATITUDE / LONGITU	DE (DD MM.N	I) - LORAN (XXXXX)		SEA SCALLOPS
4	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST 0 4 5	BEGIN			9960-		9960-			KEPT (AVERAGE)
HAUL	J J	05 / 08 / 16	12:00		41° 07.9		69°24.9		
LAST 0 5 1	END	05 / 00 / 40	10.00	9960-	448 00 0	9960-	CO% 04 E		35
WATCH #		05 / 08 / 16	18:00		41° 06.9		69° 21.5		
0.5		DATE mm/dd/w/		Station 1		Station 2	I) - LORAN (XXXXX)		# OF BASKETS
		mm/dd/yy	24 110015	Station	Latitude / Dealing	Station 2	Longitude / Deaning		# OF BASKETS
HALII 0 5 7	DEGIN	05 / 09 / 16	00.00	9960-	41° 06 9	9960-	69° 21 5		KEIT (AVERAGE)
LAST	END		00.00		41 0010		00 2110		50
HAUL 063		05 / 09 / 16	06:00	9960-	41° 07.6	9960-	69°23.4		
WATCH #	WATCH	DATE	TIME		LATITUDE / LONGITUI	DE (DD MM.N	I) - LORAN (XXXXX)		SEA SCALLOPS
_ <b>0</b> 6	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST 069	BEGIN			9960-		9960-			KEPT (AVERAGE)
HAUL	]	05 / 09 / 16	12:00	3300	41° 07.6	5500	69°23.4		
LAST 075	END			9960-		9960-			45
HAUL		05 / 09 / 16	18:00	_	41° 07.2		69°22.8		
WATCH #	WATCH	DATE	TIME		LATITUDE / LONGITU	DE (DD MM.N	I) - LORAN (XXXXX)		SEA SCALLOPS
7	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST 0 8 1	BEGIN			9960-		9960-			KEPT (AVERAGE)
	1	05 / 10 / 16	00:00		41° 06.9		69° 21.5		
	END	05 / 10 / 16	00.00	9960-	41° 07 2	9960-	60° 22 9		55
WATCH #	матен								
0.8		mm/dd/w/	24 hours	Station 1	LATTODE / LONGTO	Station 2	I ongitude / Bearing		# OF BASKETS
FIRST A A	BEGIN	inin/dd/yy	24110013			Otation 2	Longitude / Dearing		KEPT (AVERAGE)
HAUL 0 9 3		05 / 10 / 16	12:00	9960-	41° 07.9	9960-	69°24.9		
LAST	END			0000		0000			55
HAUL		05 / 10 / 16	18:00	9960-	41° 07.2	9960-	69°22.8		
WATCH #	WATCH	DATE	TIME		LATITUDE / LONGITUI	DE (DD MM.N	<b>I)</b> - LORAN (XXXXX)		SEA SCALLOPS
9	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST 1 0 5	BEGIN			9960-		9960-			KEPT (AVERAGE)
HAUL	J	05 / 11 / 16	06:00		41°06.9		69°21.5		
LAST 1 1 1	END			9960-		9960-			50
	1	05 / 11 / 16	12:00		41°07.9		69°24.9		
WATCH #	WATCH	DATE	TIME		LATITUDE / LONGITU	DE (DD MM.N	I) - LORAN (XXXXX)		SEA SCALLOPS
		mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
	BEGIN	05 / 44 / 40		9960-	440.00.0	9960-	000 05 0		KEPT (AVERAGE)
		05 / 11 / 16	18:00		41° 08.3		69° 25.6		AE
	END	05 / 11 / 16	00-00	9960-	41° 06 0	9960-	60° 21 5		40
	1		00:00		-1 00.3		03 21.3		

OBS/TRIP ID

A99012-

## **Clam/Quahog Dredge Gear Characteristics Log**

A clam/quahog gear is defined as a distinct combination of clam/quahog dredges (port and starboard or aft) deployed during the trip. If two dredges are deployed at the same time (i.e., port and starboard), describe both dredges on a single <u>Clam/Quahog Dredge Gear Characteristics Log</u>.

Most gear information will have to be obtained from the captain, as it will not be feasible to safely measure the gear if on an A-frame on the stern of the vessel

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
1	Gear Number	Unique identifier for each dredge or pair of dredges fished together.	2-digit code	Cannot be unknown.
2	Dredge Fished Aft	Visually confirm dredge was fished off the stern.	Check box	Cannot be unknown. Leave blank if not fished aft.
3	Cage Height	Obtain from captain. If range, record largest height and record range in comments.	Whole inches	Dash.
4	Cage Width	Obtain from captain.	Whole inches	Dash.
5	Cage Length	Obtain from captain. Straight-line measurement on the bottom of the dredge.	Whole inches	Dash.
6	Cage Bottom Bar Diameter	Obtain from captain. If varies, dash field and record range in comments.	Inches to the nearest tenth	Dash.
7	Cage Bottom Bar Spacing	Obtain from captain. If varies, dash field and record range in comments.	Inches to the nearest tenth	Dash.
8	Sorter Used?	Yes/No. Visually confirm.	Check one	"9".
9	Number of Nozzles	Obtain from captain. Refers to where pressurized water is emitted.	Whole number	Dash.
10	Chain Bag Used?	Yes/No. Visually confirm. More common on side-rigged vessels.	Check one	"9".
11	Average Number of Links Between Two Rings	Obtain from captain.	Whole number	Dash. Leave blank if chain bag not used.
12	Link Stock Size	Obtain from captain.	Fraction of an inch	Dash. Leave blank if chain bag not used.
13	Inside Ring Size (Top of Bag)	Measure with calipers. Measure 5 random rings from the top of the chain bag. Avoid measuring any noticeably deformed rings.	Whole millimeters	Dash. Leave blank if chain bag not used.
14	Inside Ring Size (Bottom of Bag)	Measure with calipers.	Whole millimeters	Dash. Leave blank if chain bag not used.
15	Outside Ring Size	Measure with calipers.	Whole millimeters	Dash. Leave blank if chain bag not used.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
16	Towline Type	Obtain from captain.	Check one	"0".
		Single vs bridle (two lines).		
		Describe "Other" on line 16A.		
17	Towline Position	Obtain from captain.	Check one	"0".
		Forward: Attached to the tow bar, in		
		front of the knife.		
		Over top of the knife: Set further back		
		on the dredge, above the knife.		
		Describe "Other" on line 17A.		

CLAM/QUAHOG DREDGE GEAR CHARACTERIST	ICS LOG	OBS/TRIP ID	А					
NMFS FISHERIES OBSERVER PROGRAM		DATE LANDED mm/yy	<b>B</b> /					
OBCDG 05/01/16		PAGE #	C OF					
GEAR CODE D GEAR NUMBER(S)	If the dredge is fished off the stern, check box here 2 AFT (A)	PORT DREDGE COMMENTS	·					
PORT DREDGE (P)	STARBOARD DREDGE (S)							
DREDGE CAGE SORTER USED?	DREDGE CAGE SORTER USED?							
HEIGHT         WIDTH         LENGTH         8           NO         0           3_in         4_in         5_in         YES         1	HEIGHT         WIDTH         LENGTH           NO         0							
BAR DIAMETER SPACING NOZZLES 6 7 9	BAR DIAMETER SPACING NOZZLES							
inin	inin							
CHAIN BAG	CHAIN BAG							
USED? NO 0 YES 1 <b>10</b>	USED? NO 0 YES 1							
AVG # OF LINKS BTW 2 RINGS 11	AVG # OF LINKS BTW 2 RINGS							
LINK STOCK SIZE <u>12</u> /	LINK STOCK SIZE /							
INSIDE RING SIZE (mm) (5 random measurements)	INSIDE RING SIZE (mm) (5 random measurements)							
TOP OF BAG 13	TOP OF BAG							
BOTTOM OF BA( <b>14</b>	BOTTOM OF BAG							
OUTSIDE RING SIZE 15 mm	OUTSIDE RING SIZEmm							
TOWLINE	TOWLINE							
TOWLINE TYPE:       16       TOWLINE POSITION:       17         Unknown       0       Unknown       0         Single       1       Forward       1         Bridle       2       Over Top of the Knife       2         Other       9       Other       9	TOWLINE TYPE:       TOWLINE POSITION:         Unknown       0       0         Single       1       1         Bridle       2       Over Top of the Knife       2         Other       9       Other       9							

<b>CLAM/QUAHOG DREDGE GEAR CHARACTERISTIC</b>	S LOG	OBS/TRIP ID	A99011-
NMFS FISHERIES OBSERVER PROGRAM		DATE LANDED mm/yy	06 / 16
OBCDG 05/01/16		PAGE #	1 OF 2
GEAR CODE GEAR NUMBER(S)	If the dredge is fished off the stern, check box here	PORT DREDGE COMMENTS Vessel is stern rigged	
PORT DREDGE (P)	STARBOARD DREDGE (S)		
DREDGE CAGE SORTER USED?	DREDGE CAGE SORTER USED?		
HEIGHT WIDTH LENGTH NO 0 20 in0 in in YES 1 X	HEIGHT WIDTH LENGTH NO 0 ininin YES 1		
CAGE BOTTOM BAR NUMBER OF BAR DIAMETER SPACING NOZZLES	CAGE BOTTOM BAR NUMBER OF BAR DIAMETER SPACING NOZZLES		
<u>1.0</u> in <u>1.2</u> in <u>30</u>	inin		
<b>CHAIN BAG</b> USED? NO 0 <u>X</u> YES 1	CHAIN BAG USED? NO 0 YES 1		
AVG # OF LINKS BTW 2 RINGS	AVG # OF LINKS BTW 2 RINGS		
	LINK STOCK SIZE /		
INSIDE RING SIZE (mm) (5 random measurements)	INSIDE RING SIZE (mm) (5 random measurements)	STARBOARD DREDGE COMMENTS	
TOP OF BAG	TOP OF BAG		
BOTTOM OF BAG	BOTTOM OF BAG		
OUTSIDE RING SIZEmm	OUTSIDE RING SIZEmm		
TOWLINE	TOWLINE		
TOWLINE TYPE:         TOWLINE POSITION:           Unknown         0           Single         1           X         Forward         1           Bridle         2         Over Top of the Knife         2           Other         9         Other         9	TOWLINE TYPE:         TOWLINE POSITION:           Unknown         0         Unknown         0           Single         1         Forward         1           Bridle         2         Over Top of the Knife         2           Other         9         Other         9		



## Clam/Quahog Dredge Haul Log

If the gear is set, and only partially hauled back, include the time spent hauling and resetting the net in this haul's time.

Use a <u>Clam/Quahog Dredge Off-Watch Haul Log</u> to document all hauls that occur during your off-watch period. Do not record off-watch hauls on a <u>Scallop Trawl Haul Log</u>.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Tow Speed	Obtain from captain.	Knots, to the	Dash.
		Average tow speed during tow.	nearest tenth	
2	Wire Out	Obtain from captain.	Whole	Dash.
			Fathoms	
3	Clam/Quahog Clappers	Yes/No.	Check one	"9".
	Observed?	Visually confirm.		
		Corresponds to target species.		

CLAM/QUA	AHOG DRE	DGE HA	UL LO	G									OBS/	TRIP ID		Α		
NMFS FISH	HERIES OF	BSERVER	R PRO	GRAM									DATE	LAND (m	ım/yy)	в	/	
OBCDH C	OBHAU O	BSPP 0	5/01/16	6									PAGE	#		с [	OF	
GEAR CODE	D GEAR #	E HAUL #	F	HAUL OB	S? Of	N-EFFORT?	CATCH	1?	INC TAP	KE?	WEATHER CODE	WIND		WAVE	HEIGHT	DEPTH,	GEA	R COND CODE
				NO 0	NC	O 0	NO 0		NO 0			SPEED D	IRECTION			HAUL BE	GIN	
				YES 1	G YE	S1 H	YES 1	<u> </u>	YES 1	J	К	L	М	0	N	0		Р
										0.5.4.1.()/		kn			ft		fm	
HAUL/FISHING	DATE	AND 24 hours		Station 1	Latitude	LATTUDE /	LONGITU	Static	<u>/IWI.IVI) - L</u>	ORAN (X	AXXX)		OW SPEED	1	VVI	RE OUT	2	
BEGIN	Q	R	3		Latitude	Dearing		Static		Longituu	er beaning	'			kn		2	fm
HAUL	_ / /		:	9960 -		S		9960	-			. FT.	ARGET SPE	CIES	iui		COD	E
BEGIN													U				v	
FISHING	/ /		:									CLAM/QUAHOG						
END				9960 -				9960	-			CLAPPERS OBS?						
HAUL	/ /		:									3						
GEAR												N0 0						
ONBOARD	/ /		:									YES 1						
COMMENTS																		
																SAMPLE	WEIGHT M	ULTIPLIER
																	vv	
	SPI	CIES						W	VEIGHT			SPECIES						FIGHT
	Ci i				SUB-				ESTIMA	ATION				SUB-				ESTIMATION
				0005	SAMPLE		DISP	B (5	METH	HOD			0005	SAMPLE		DISP	D (D	METHOD
	NAME			CODE	WEIGHT	POUNDS	CODE	D/R	00		NA	AME	CODE	WEIGHT	POUNDS	CODE	D/R	CODE
	A			B	U.	0	E	F.	G									
1					·•					11				·				
2										12								
2					·					12				·				
3										13								
4										14								
5										15								
6					·					16								
7					·					17				··				
8					·					18	i							
9				-	•				+	19			-	·				
10										20				· · · · · · · · · · · · · · · · · · ·				

CLAM/QUA	HOG DREDO	GE HAUL LO	G									OBS/	TRIP ID			A99011-	
NMFS FISH	IERIES OBSI	ERVER PROG	GRAM									DATE	LAND (m	nm/yy)	06	06 / 16	
OBCDH O	BHAU OBS	PP 05/01/16	6					-			_	PAGE	#		[	1 OF	4
GEAR CODE	GEAR #	HAUL #	HAUL OB	S? ON	I-EFFORT?	CATCH	?	INC TAK	KE?	WEATHER CODE	WIN	D	WAVE	E HEIGHT	DEPTH,	GEAF	R COND CODE
2 0 1			NO 0	NC	0 0	NO 0		NO 0	X		SPEED	DIRECTION			HAUL BE	GIN	
			YES 1	X YE	S1 X	YES 1	<u>x</u>	YES 1			10	00	0	1 0		6	010
														tm	810		
INFO	mm/dd/vv	24 hours	Station 1	Latitude	Bearing	LONGITOL	Statio	n 2		e / Bearing	WATER TENIF	TOW SPEED		vv			
BEGIN	inin/dd/yy	24110013		Lunduo	Douling		0000	11 2	Longituu	<b>C</b> / Douring	0	3	. 7	kn	1	10	fm
HAUL	06/15/16	10 : 10	9960 -		39 ° 10.	5	9960	-		74 ° 11.3	60.1F	TARGET SPE	ECIES			COD	E
BEGIN																	
FISHING	06/15/16	10 : 13		1							CLAM/QUAHOG	Ocea	n Quahog	3			
END			9960 -				9960	-			CLAPPERS OBS?						
HAUL	06 / 15 / 16	10 : 35			39 ° 11.	2				74 ° 10.3							
	06/15/16	10 . 12									N0 0 <u>X</u>						
	067 15 7 16	10 : 42									1E3 I						
COMMENTS																	
	Sorter motor b	roke. 30 minute	s lost for r	epair													
	Blade was bent during tow.																
															SAMPLE	WEIGHT M	ULTIPLIER
	SPECI	ES					W	/EIGHT		S	SPECIES						EIGHT
				SUB-				ESTIMA	TION				SUB-				ESTIMATION
			CODE	SAMPLE	DOLINDS	DISP		METH	IOD	NAN		CODE	SAMPLE	DOLINDS	DISP	D/D	METHOD
	NAME		CODE	WEIGHT	POUNDS	CODE	D/R	COL		INAIV		CODE	WEIGHT	POUNDS	CODE	D/R	CODE
1 Ocean Q	Quahog				320	100	D	04	11								
				·	010												
2 Sea Cuc	umber, nk				2	001	R	01	12								
з Sea Squ	ıirt, nk				1.1	001	R	01	13				·				
4									14				·				
5				·					15				·				
<u>_</u>																	
D			1	·				<u> </u>	16				·				
7									17								
			1						Ľ′				· · · · ·		1		
8									18								
9									19								
10									20								

OMB Control No.: 0648-0593 Expires on: 10/31/2018

### Clam/Quahog Dredge Off-Watch Haul Log

This log is to be used for recording dates, times, locations, and the amount of kept clams/quahogs for **off-watch** hauls on clam/quahog dredge gear trips. Complete a single section for each off-watch period.

If you are aware of an incidental take of a marine mammal, sea turtle, or seabird during an off-watch period, complete as many fields as possible on a <u>Clam/Quahog Dredge Haul Log</u> in addition to completing a <u>Marine Mammal, Sea Turtle, and</u> <u>Seabird Incidental Take Log</u>.

Fields 1, 2, 4, 6, and 8 should be completed **before** going off watch. Fields 3, 5, 7, 9, and 10 should be completed **after** your off-watch ends (i.e., before coming back on-watch).

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Watch Number	Sequential by order off-watch	2-digit code	Cannot be unknown.
		number.		
2	First Haul Number	First haul of off-watch period.	3-digit code	Cannot be unknown.
3	Last Haul Number	Last haul of off-watch period.	3-digit code	Cannot be unknown.
4	First Haul Begin Date	See Appendix C – Set/Haul Time Definitions.	MM/DD/YY	Cannot be unknown.
5	Last Haul End Date	See Appendix C – Set/Haul Time Definitions.	MM/DD/YY	Cannot be unknown.
6	First Haul Begin Time	See Appendix C – Set/Haul Time Definitions.	HH:MM (24hr)	Dash.
7	Last Haul End Time	See Appendix C – Set/Haul Time Definitions.	HH:MM (24hr)	Dash.
8	First Haul Begin Position	See Appendix C – Set/Haul Time Definitions. See Appendix D – Conversion Tables.	Latitude/Longitude, to the nearest tenth of a minute OR LORAN station bearings	3-digit statistical area See Appendix A – Northeast Statistical Areas.
9	Last Haul End Position	See Appendix C – Set/Haul Time Definitions. See Appendix D – Conversion Tables.	Latitude/Longitude, to the nearest tenth of a minute OR LORAN station bearings	3-digit statistical area See Appendix A – Northeast Statistical Areas.
10	Average Number of Basket Kept	Obtain from captain.	Nearest whole basket	Dash.

# CLAM/QUAHOG DREDGE OFF-WATCH HAUL LOG

NMF	S FISH	IERIES O	BSERVER PROG	RAM			D	ATE LANDED mm/yy	B /
OBC	DO O	BHAU 05	5/01/16				P	AGE #	<b>C</b> of
WATC	H# <b>1</b>	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.N	I) - LORAN (XXXXX)	CLAM/QUAHOG
	_1	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST HAUL	2	BEGIN	4	: 6	9960-	8	9960-		KEPT (AVERAGI 10
LAST HAUL	3	END	5	: 7	9960-	9	9960-		
WATC	H #	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.	I) - LORAN (XXXXX)	CLAM/QUAHOG
	_2	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN		:	9960-		9960-		KEPT (AVERAGI
LAST HAUI		END		:	9960-		9960-		
WATC	H #	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.N	I) - LORAN (XXXXX)	CLAM/QUAHOG
	_3	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN		:	9960-		9960-		KEPT (AVERAGI
LAST		END		:	9960-		9960-		
HAUL	H#								
	1		DATE mm/dd/w/	24 hours	Station 1	LATITUDE / LONG	Station 2	I ongitude / Bearing	
FIRST	Ť		mm/dd/yy	24 110015	Station	Latitude / Deaning	Station 2	Longitude / Dearing	KEPT (AVERAG
HAUL			/ /	:	9960-		9960-		
LAST HAUL		END	1 1	:	9960-		9960-		
WATCI	H #	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.	<b>II)</b> - LORAN (XXXXX)	CLAM/QUAHOG
	_5	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST HAUI		BEGIN		:	9960-		9960-		KEPT (AVERAGI
		END		:	9960-		9960-		
WATCI	H #	WATCH	, , DATE	TIME					
6	6	INFO	mm/dd/vv	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN		:	9960-		9960-		KEPT (AVERAGI
HAUL LAST		END	1 1		9960-		9960-		
HAUL			1 1						
WATCI	H #	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.N	<b>II)</b> - LORAN (XXXXX)	CLAM/QUAHOG
	_7	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
HAUL		BEGIN	/ /	:	9960-		9960-		KEPT (AVERAGI
LAST HAUL		END		:	9960-		9960-		
WATCI	H #	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.	I) - LORAN (XXXXX)	CLAM/QUAHOG
	_8	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN		:	9960-		9960-		KEPT (AVERAGI
LAST		END	, ,	:	9960-		9960-		
HAUL			/ /						
WATCI	-	WATCH	DATE	TIME	-	LATITUDE / LONG	ITUDE (DD MM.N	(I) - LORAN (XXXXX)	CLAM/QUAHOG
	_9 		mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
HAUL		BEGIN	/ /	:	9960-		9960-		
LAST HAUL		END	/ /	:	9960-		9960-		
WATCI	H #	WATCH	DATE	TIME		LATITUDE / LONG	ITUDE (DD MM.M	I) - LORAN (XXXXX)	CLAM/QUAHOG
	_0	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing	# OF BASKETS
FIRST		BEGIN		:	9960-	~	9960-		KEPT (AVERAGI
LAST		END	/ /	:	9960-		9960-		
HAUL		_	/ /						

OBS/TRIP ID

Α

# CLAM/QUAHOG DREDGE OFF-WATCH HAUL LOG

NMFS	5 FISHE		BSERVER PROGRA	M			D	ATE LANDED mm/yy	05	/ 16
OBCD	о ов	HAU 05/	01/16				P/	AGE #	l of <b>2</b>	
WATCH	#	WATCH	DATE	TIME		LATITUDE / LONGITUDE	(DD MM.M	) - LORAN (XXXXX)		CLAM/QUAHOG
	1	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST	9	BEGIN			9960-		9960-			KEPT (AVERAGE)
HAUL	-		05 / 06 / 16	00:00	ļ	41° 07.2		69°22.8		
LAST	15	END			9960-		9960-			30
HAUL	щ		05 / 07 / 16	06:00		41°08.3		69° 25.6		
WAICH	#	WATCH	DATE	TIME		LATITUDE / LONGITUDE	(DD MM.M	) - LORAN (XXXXX)		CLAM/QUAHOG
2	2	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST	21	BEGIN			9960-		9960-			KEPT (AVERAGE)
HAUL			05 / 07 / 16	12:00		41° 08.3		69° 25.6		
LAST	27	END	05 / 07 / 10		9960-	440 07 4	9960-	CO0 00 0		40
HAUL WATCH	#	MATCH	05 / 0/ / 16	18:00				69° 22.3		
		WATCH			Chatler 1	LATITUDE / LONGITUDE		I) - LURAN (XXXXX)		ULAM/QUAHOG
	3		mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
	33	BEGIN	05 / 09 / 46	00-00	9960-	410 07 4	9960-	60° 00 0		NEPI (AVERAGE)
			07 / 80 / 60	00:00		41 07.4		09 22.3		25
HALII	39		05 / 08 / 16	06.00	9960-	41° 07 9	9960-	69° 24 9		30
WATCH	#	WATCH	DATE					00 27.0		
0 /	1	INFO	mm/dd/vv	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST		BEGIN	ппп, аа, уу					_onghado / Deaning		KEPT (AVERAGE)
HAUI	45	22011	05 / 08 / 16	12:00	9960-	41° 07.9	9960-	69°24.9		
LAST	<b>F</b> 4	END			0000		0000			35
HAUL	51		05 / 08 / 16	18:00	9960-	41°06.9	aaeo-	69°21.5		
WATCH	#	WATCH	DATE	TIME		LATITUDE / LONGITUDE	(DD MM.M	) - LORAN (XXXXX)		CLAM/QUAHOG
0 5	5	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST	57	BEGIN			9960		0060			KEPT (AVERAGE)
HAUL	57		05 / 09 / 16	00:00	3900-	41°06.9	3900-	69° 21.5		. ,
LAST	63	END			9960-		9960-			50
HAUL	03		05 / 09 / 16	06:00	3900-	41° 07.6	3900-	69°23.4		
WATCH	#	WATCH	DATE	TIME		LATITUDE / LONGITUDE	(DD MM.M	I) - LORAN (XXXXX)		CLAM/QUAHOG
_ <b>0</b> 6	6	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST	69	BEGIN			9960-		9960-			KEPT (AVERAGE)
HAUL			05 / 09 / 16	12:00		41°07.6		69°23.4		
LAST	75	END			9960-		9960-			45
HAUL			05 / 09 / 16	18:00	_	41° 07.2		69°22.8		
WATCH	#	WATCH	DATE	TIME		LATITUDE / LONGITUDE	(DD MM.M	) - LORAN (XXXXX)		CLAM/QUAHOG
7	7	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST	81	BEGIN			9960-		9960-			KEPT (AVERAGE)
HAUL			05 / 10 / 16	00:00		41°06.9		69°21.5		
LAST	87	END			9960-		9960-			55
HAUL	#		05 / 10 / 16	06:00		41° 07.2		69°22.8		
WATCH	#	WATCH	DATE	TIME	<u> </u>	LATITUDE / LONGITUDE	(DD MM.M	I) - LORAN (XXXXX)		CLAM/QUAHOG
<u>0</u>	3	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST	93	BEGIN			9960-		9960-			KEPT (AVERAGE)
HAUL			05 / 10 / 16	12:00		41° 07.9		69° 24.9		
LAST	99	END	05 / 40 / 40		9960-	440.07.0	9960-	000 00 0		55
HAUL	#		05 / 10 / 16	18:00		41° 07.2	L	69° 22.8		
	π'	WATCH	DATE	IIME		LATITUDE / LONGITUDE	(DD MM.M	I) - LORAN (XXXXX)		CLAM/QUAHOG
<u>0</u> 9	J	INFO	mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST	105	BEGIN			9960-		9960-			KEPI (AVERAGE)
HAUL			05 / 11 / 16	06:00		41°06.9	-	69° 21.5		
	111	END	05 / 44 / 40		9960-	440 07 0	9960-	600 04 0		50
HAUL WATCH	#	MATOL:	UD / 11 / 16	12:00	JU   41 U/.9   09' 24.9					
4		WATCH	DATE mm/dd/usi		LATITUDE / LONGITUDE (DD MM.M) - LORAN (XXXXX)					
	J		mm/dd/yy	24 hours	Station 1	Latitude / Bearing	Station 2	Longitude / Bearing		# OF BASKETS
FIRST	117	BEGIN	0E / 44 / 40	40.00	9960-	440.00.0	9960-	600 OF 0		KEPI (AVERAGE)
			<u>vo/11/16</u>	18:00		41° 08.3		69° 25.6		45
	123	END	05 / 44 / 46	00.00	9960-	41° 06 0	9960-	60° 04 E		45
HAUL		1	07/11/10	00:00	I	41 00.9		09 21.5		

OBS/TRIP ID

A99012-

### Marine Mammal, Sea Turtle, and Seabird Incidental Take Log

The purpose of this log is to document incidentally taken marine mammals, sea turtles, and seabirds. For each incidental take, complete a new line on this log. If more than one animal is taken at a time, record each animal on a separate line.

The same log may be used for all incidental takes occurring on a trip, regardless of haul number, if they are all caught by the same vessel.

For pair trawl trips, incidental takes should never be duplicated.

- If <u>one observer</u>: record all incidental takes regardless of which vessel the net was hauled onboard.
- If <u>two observers</u>: only record the incidental takes that occur on the vessel to which you are deployed.

### Comments

Record any additional information regarding the incidental take(s), especially when data are unable to be collected. The COMMENTS section should include a list of identifying characteristics, details on the entanglement situation, and a description of the overall condition of the animal. If more room is needed, use the back of this log, making sure to indicate "See Back" on the front. For NEFOP and IFS trips, reference each comment with its corresponding field name and PSID. Also, include any other relevant information regarding the incidental take, such as for dredge/trawl gear if the animal was seen in the dredge/net prior to dumping on deck.

If an animal fall from the gear (alive or dead), complete this log and record additional comments regarding the "fallout," (e.g., the specifics of how the animal was entangled, whether the animal sank or floated away).

Turtle takes: comment on whether the animal slid out or escaped from the gear. Comment on if and how the turtle was hooked and/or entangled. If any gear was left on the animal when released, thoroughly describe the amount of gear, including linear feet.

Marine mammals: comment on whether the animal was released with gear. Include a description of the gear (type, material, any buoys/floats, etc.), how the animal was entangled, and how much gear remained upon release.

Seabirds: comment when animals are seen diving near setting/hauling of gear, if chasing bait, offal (entrails and internal organs of processed species), or fallouts near gear, or any details relative to how the animal(s) became entangled.

		-		
Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1*	Protected Species ID #	Sequential for each animal in order	2-digit code	Cannot be unknown.
		of time taken.		
2*	Haul Number	Must match the corresponding Haul	3-digit code	Cannot be unknown.
		Log.		
3*	Gear Number	Must match the corresponding Gear	2-digit code	Cannot be unknown.
		Characteristics Log.		
4	Net Number/Net	Gillnet: net number that the animal	Whole number	"00"
	Position	was taken in within the string,		Only filled in for
		starting with "1", for the first net		Gillnet, Scallop
		hauled back.		Dredge, Scallop Trawl,
		Scallop Dredge, Scallop Trawl and	Single letter	and Twin Trawl;
		Twin Trawl Gear: dredge/net the		otherwise leave blank.
		animal was taken in.		
5	Time Brought Up	Local time animal brought onboard,	HH:MM (24hr)	Dash.
		or alongside vessel (if not onboard).		

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
6	Active Deterrent Device Condition	Determine audibly or with tester.	1-digit code	"0".
7*	Species Name	See Appendix T – Species Codes.	N/A	Cannot be unknown.
8	Species Code	Filled in by FSB staff for data entry. Observers: leave blank.	4-digit code	Cannot be unknown.
9*	Tag Number	Tag attached by observer and/or already present on animal. Photograph tag location.	Alphanumeric code NEFOP and IFS: up to 4 unique tag numbers per animal ASM: record additional tags in comments	Dash.
10*	Tag Code	Refers to corresponding Tag Number	1-digit code	"0".
11*	Entanglement Situation	Primary entanglement/interaction. See Appendix Q – Entanglement Code.	2-digit code	"00" and describe first observation in comments.
12*	Animal Condition	Condition of the animal when released. See Appendix R – Animal Condition Code.	2-digit code	"00".
13	Onboard?	Yes/No.	1-digit code	"9".
14*	Photo(s) Taken?	Yes/No. Comments required if animal not photographed.	1-digit code	Cannot be unknown.
15	Sampled?	No / Yes / Yes, feathers only.	1-digit code	Cannot be unknown.
16	Estimated Length	Estimated by observer. Sea turtles: Notch to Tip (curvilinear). Marine mammals: Total Length (straight).	Whole centimeters	Dash. Leave blank for birds. Dash if actual measurements taken on Sample Log.

### MARINE MAMMAL, SEA TURTLE, AND SEA BIRD INCIDENTAL TAKE LOG NIMES EIGHEDIES OBSERVER BROCKAM

NMFS FISHERIES OBSERVER PROGRAM       DATE LANDED mm/yy       B														/	
OBINC	05/01/1	6									PA	GE #		<b>c</b> 🗌 c	)F
PSID #	HAUL	GEAR	NET NUM/	TIME	ADD	SPECIES		TAG		ENTANG	ANIMAL	ANIMAL	PHOTO	SAMPLED?	EST
	NUM	NUM	DREDGE/NET	(24 hours)	COND	NAME	CODE	NUMBER(S)	CODE(S)	SITU	COND	ONBRD?	TAKEN?	0=No	LEN (cm)
			POSITION		CODE					CODE	CODE	0=No	0=No	1=Yes	(if no actual)
			(p/s/u/a)					(record most recent first)				1=Yes	1=Yes	2 = Yes, feathers only	(no birds)
1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16
1				:											
2				:											
3				:											
4				:											
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6															
7															
8															
0				:											
9				:											
0				:											

COMMENTS: List identifying characteristics, describe in detail the entanglement situation, include a description of the overall body condition of the animal, behavior on deck and upon release

and any other related information. Use back of log if more room is needed.

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OBS/TRIP ID

MARINE	IARINE MAMMAL, SEA TURTLE, AND SEA BIRD INCIDENTAL TAKE LOG												OBS/TRIP ID A99010+(trip e				
NMFS F	ISHERIE	ES OBS	ERVER PRO	OGRAM							DA	TE LANDED	) mm/yy	01	/ 16		
OBINC	05/01/1	6									PA	GE #		<b>1</b> C	DF 2		
PSID #	HAUL	GEAR	NET NUM/	TIME	ADD	SPECIES		TAG		ENTANG	ANIMAL	ANIMAL	РНОТО	SAMPLED?	EST		
	NUM	NUM	DREDGE/NET	(24 hours)	COND	NAME	CODE	NUMBER(S)	CODE(S)	SITU	COND	ONBRD? TAKEN?		0=No	LEN (cm)		
			POSITION		CODE					CODE	CODE	0=No	0=No	1=Yes	(if no actual)		
			(p/s/u/a)					(record most recent first)				1=Yes	1=Yes	2 = Yes, feathers only	(no birds)		
									1	1							
FOR GI		EARS:	<u> </u>	-	1			1						[			
0 1	2	2	•	10.04	2	Harbor Dornaica		D07092	1	04	44	•	4	4	105		
	3	3	0	10:04	2	Harbor Porpoise		D07962		04		U			105		
FOR DF	REDGE, S	SCALLC	P TRAWL,	& TWIN	TRAW	/L GEARS:											
								QQS555	1								
<b>0</b> 2	4	1	р	12:13	1	Loggerhead Turtle		PPD117	1	18	09	1	1	1			
FOR OT	HER GE	ARS:	1	1	1							1					
<b>0</b> 3	15	2		12:20	1	Greater Shearwater			2	26	13	1	1	0			
4				:													
5				:													
6				:													
7				:													

COMMENTS: List identifying characteristics, describe in detail the entanglement situation, include a description of the overall body condition of the animal, behavior on deck and upon release

and any other related information. Use back of log if more room is needed.

PSID #01- Fell from net when animal came to roller head first and meshes tore dropping animal into water, but was recovered using gaff into head of animal. Small sample of dorsal fin taken for DNA, tagged around peduncle & photographed while in water, but was not brought onboard as too heavy to lift over side rail. No beak; spade-like flat-topped small teeth; dark gray/black coloration to dorsal surface of body, dorsal fin, flippers and fluke gradually changing to light gray on lateral body and white belly. Could not see entire R side of body but L side had no visible damage or blood except thin, linear cut in skin down to blubber around head behind blowhole where head was through mesh. R flipper also through a mesh to axilla which tore when raised to hauler. Indentation to skin around flipper at axilla but did not penetrate skin. Body sunk immediately when released.

See back for more comments.

			OBS/TRIP ID	A99010+(trip ext)		
			DATE LANDED mm/yy	01 / 16		
			PAGE #	2 OF 2		
ACTIVE DETERRENT DEVICE	ENTANGLEMENT / INTERACTION SITUATION CODES:		ANIMAL CONDITION CODES (v	/hen released):		
(ADD) CONDITION CODES:	00 = Unknown	20 = Caught in Dredge Frame or Between Bails	00 = Unknown			
0 = Unknown	01 = Fell From Gear at a Point Unknown	21 = Caught Inside Dredge in Twine Top	01 = Alive, see comments			
1 = No Pingers Used On Gear	02 = Fell From Gear Before Exiting Water	22 = Caught on Sweep/Tickler/Rock Chains	04 = Alive, Hook/Gear In/Around	Mouth		
2 = Audible, Not Tested	03 = Fell From Gear Once Hauled Out of Water	23 = Caught in Bridles/Cables/Warp	05 = Alive, Hook/Gear In/Around	Flipper		
3 = Inaudible, Tested and Working	04 = Fell From Gear Due to Force of Roller	24 = Inside Mouth of Trawl Net	06 = Alive, Hook/Gear In/Around	Another Single Body Part		
4 = Inaudible, Tested and Not Working	05 = Removal Requires Cutting of Gear/Animal	25 = Inside Belly of Trawl Net	07 = Alive, Hook/Gear In/Around	Several Body Parts		
5 = Inaudible, Not Tested	06 = Removal Does NOT Require Cutting of Gear/Animal	26 = Inside Codend of Trawl Net	08 = Alive, Seen by Captain/Crev	ONLY		
6 = Absent (Lost)	08 = Caught in Wings of Trawl Net	27 = Caught in Sweep or Footrope of Trawl Net	09 = Alive, resuscitated (turtle)			
7 = Audible, Tested and Working	10 = Sea Bird Caught, Gangion Attached to Mainline	28 = Contact with Vessel or Vessel Equipment	10 = Dead, Condition Unknown			
8 = Audible, Tested and Not Working	11 = Sea Bird Caught, Gangion Unattached to Mainline	other than Fishing Gear	11 = Dead, Fresh			
	12 = Hooked, Ingested	29 = Entangled in Gear other than Vessel's	12 = Dead, Moderately Decompo	sed		
	13 = Hooked, Beak	Fishing Gear (e.g. Ghost Gear Caught by Vessel)	13 = Dead, Severely Decompose	d		
TAG CODES:	14 = Hooked, Head	30 = Caught in Catch Pump	14 = Dead, Seen by Capt/Crew C	NLY		
0 = Unknown	15 = Hooked, Flipper	31 = Entrapped/caught in Bunt of Purse Seine				
1 = Tag Applied by Observer	16 = Hooked, Carapace	32 = Entrapped/caught in Net/Wing of Purse Seine				
2 = No Tag(s)	17 = Hooked, Other/Unknown	33 = Caught in the Buoyline	NOTE: If more than one code ap	plies, choose the code		
3 = Tag Already Present, Left On	18 = Caught Inside Dredge Chain Bag	99 = Other	that describes the most specific c	ondition (e.g. a		
4 = Tag Already Present, Removed	19 = On Top of Dredge or Dredge Frame	turtle is alive and released with gear around the left front				
	NOTE: If more than one code applies to a situation, choose t	flipper - choose code 05 as it is most specific at release).				
NOTE: Record Turtle Pit Tags	entanglement/interaction (e.g. a turtle is observed inside the					
on the Sample Log	as it is hauled up - choose code 21 as it best describes the p	rimary interaction).				

ADDITIONAL COMMENTS

PSID #02- Turtle foreflipper seen protruding through dredge ring prior to dumping. Found in pile of catch right side up during sorting @ depth of approx. 6in below scallops. No movement seen and not reacting to eye reflex or flipper tug stimuli test. Moved from pile by crew holding edges of plastron to area of deck in shade. Resuscitation begun at 12:30 with body flat on board and hind quarters elevated about 6in high. Turtle was rocked gently from side to side occasionally while on board . No visible drainage from nose or mouth noted. No movement for 4 hours, then began moving flippers back & forth while opening & closing mouth; kept onboard for 1 more hour until haul completed. Was then able to crawl around deck so was released. Total resuscitation time = 5 hrs. Carried to stern ramp by lifting sides of carapace & released off stern ramp tail first gently into water. Gear was out of water and engine in neutral. Swam few strokes & dove immediately. At surface <10 sec & not sighted again. Tag present on right flipper when found, left on with another tag added to L flipper. 2 pairs of prefrontal scutes, 5 costal scutes w/ first costal touching nuchal scute, 3 inframarginals w/ no pores, overall brown/orange coloration.

PSID #03- Shearwater not seen in net but found in pile of fish after dumping. Birds feather were water logged w/ head and body feathers 45% intact. Tissue on legs torn exposing some bone. Opening in body cavity exposing internal tissue with most organs missing and skeletal remains intact. Remaining skin mushy and tore easily. Odor like rotting flesh and coloration on feet faded to grayish pink and hanging from bones. Feathers taken and retained from breast area (easily pulled from skin with no resistance). Id'd by tubes on top of black beak that is strongly hooked, dark black cap on white head and neck, belly feathers white with dirty brown areas in feathers on center ventral mid to rear body, 4 toes present with 3 webbed, black dorsal wings and body.

INCIDEN [®]		LOG (FRONT)	OBS/TRI	P ID	Α				
NMFS FIS	HERIES AT-	SEA MONITORING PROGRAM		DATE LA	NDED mm/yy	В	/		
ASMINC	05/01/16			PAGE #		<b>C</b> of			
PSID #	HAUL #	SPECIES NAME	TAG		ENTANG	ANIMAL	PHOTO		
			NUMBER	CODE	SITU	COND	TAKEN?		
1	2	7	9	10	11	12	14		
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6									
7									
8		-							
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	ITS: List ider	_I ntifying characteristics, describe in detail t	I he entanglement si	tuation, ind	clude a descrip	tion of the ove	rall body		
condition of t	he animal, beha	avior on deck and upon release and any o	ther related informa	ation. Use	back of log if r	nore room is n	eeded.		
1									

	IAL IAKE	LOG (FRONT)		OBS/TRI	P ID	A99002C			
MFS FIS	HERIES AT-	SEA MONITORING PRO	OGRAM	DATE LA	NDED mm/yy	10	/ 16		
			ТАС	PAGE #					
SID #	HAUL #	SPECIES NAME	NUMBER	CODE	SITU		TAKEN?		
_ <b>0</b> _1	011	Harbor Seal	D07982	1	06	11	Y		
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4									
5									
6									
7									
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9									
0									
	he animal, beha	ntifying characteristics, describ avior on deck and upon release	e in detail the entanglement si e and any other related informa	tuation, ind ation. Use	clude a descrip back of log if r	tion of the ove nore room is n	rall body eeded.		
Divivite Non- ondition of t PSID 01 PSID 01 Preshes viewing, Crew dis neshes seal was scaveng kin - re scaveng kin - re scaveng kin - re scaveng kin - re scaveng kin - re scaveng skin - re scaveng scaveng skin - re scaveng	ITS: List ident he animal, beha brought or assed the list around or seal was of sentangled down the list intact and er damage sembeled a sembeled a sembeled a supped teet ed nostrils ed head w/ dark grey : light grey	ntifying characteristics, describ avior on deck and upon release nboard near begin ha head and neck; entar nly front of body). Se completely intact with seal from net - they body. Seal was motion fresh. There were n e. There was an inder an impression. It was th for ID. Gums were ttached to body durin ich. Eyes were black	be in detail the entanglement si e and any other related information inglement did not exter eal was motionless & h no blood, abrasions did <u>not</u> have to cut ei onless throughout th no cuts or bleeding, n int in the flesh around s about 1mm wide & pink & firm. The seal ng handling. Did not and glossy with no fi	tuation, ind ation. Use et mesl and dow its eye s, cuts, ither the is proc o evide 1 the he 1 mm de 's skin smell a luids le	L clude a descrip back of log if r hes. Seve vn past the s were op or anythir e net or th ess. Over ence of rot ad which eep. Oper & fur were ny foul od aking fron	tion of the ove nore room is n ral meshe e fore flipp en and cle ng of that e seal, jus all conditi ting flesh did not br ned mouth intact; fu lors from s n them.	rall body eeded. es pers ear. On first nature. to pulled the or eak the or eak the to r was seal. Seal		
PSID 01 PSID 0	ITS: List iden he animal, beha brought or assed the list around or seal was of sentangled down the list intact and er damage sembeled a sembeled a sums/teef & stayed a d to the tou cteristics: usped teet ed nostrils ed head w/ dark grey : light grey	ntifying characteristics, describ avior on deck and upon release nboard near begin ha head and neck; entar hly front of body). Se completely intact with seal from net - they body. Seal was motion to fresh. There were no body. Seal was motion to fresh. There were no completely intact with seal from net - they body. Seal was motion to fresh. There were no context of the seal was the for ID. Gums were that her in the seal of the seal was motion to for iD. Gums were that her in the seal of the seal of the seal of the seal of the seal of the seal of the seal of the seal of the seal of the seal of the seal of the seal of the seal of the seal of the seal of the seal of the seal of the seal of	e in detail the entanglement si e and any other related informa aul, entangled in gilln nglement did not exter eal was motionless & h no blood, abrasions did <u>not</u> have to cut ei onless throughout th to cuts or bleeding, n nt in the flesh around s about 1mm wide & pink & firm. The seal ng handling. Did not and glossy with no f	tuation, inc ation. Use et mesl and dov its eye s, cuts, ither the is proc o evide 1 the he 1mm de 's skin smell a luids le	L clude a descrip back of log if r hes. Seve vn past the s were op or anythir e net or th ess. Over ence of rot ead which eep. Oper & fur were ny foul od paking fron	tion of the ove nore room is n ral meshe e fore flipp en and cle ng of that e seal, jus all conditi ting flesh did not br ned mouth intact; fu ors from s n them.	I rall body eeded. Soers ear. On first nature. St pulled the fon of the or eak the n to r was seal. Seal		

INCIDENTAL TAKE LOG (BACK)		OBS/TRIP ID					
NMFS FISHERIES AT-SEA MONITORING PROGRAM		DATE LANDED mm/yy	1				
ASMINC 05/01/16		PAGE #	of				
ANIMAL CONDITION	ENTANGLEM	ENT					
00 = Unknown	00 = Unknown	1					
01 = Alive, see comments	01 = Fell From Gear at a Point Unknown						
04 = Alive, Hook/Gear In/Around Mouth	02 = Fell From	n Gear Before Exiting Water					
05 = Alive, Hook/Gear In/Around Flipper	n Gear Once Hauled Out of W	/ater					
06 = Alive, Hook/Gear In/Around Another Single Body Part	04 = Fell From	Gear Due to Force of Roller					
07 = Alive, Hook/Gear In/Around Several Body Parts	05 = Removal	Requires Cutting of Gear/An	imal				
08 = Alive, Seen by Captain/Crew ONLY	06 = Removal	Does NOT Require Cutting of	f Gear/Animal				
09 = Alive, resuscitated (turtle)	08 = Caught in	n Wings of Trawl Net					
10 = Dead, Condition Unknown	10 = Sea Bird	Caught, Gangion Attached to	Mainline				
11 = Dead, Fresh	11 = Sea Bird	Caught, Gangion Unattached	to Mainline				
12 = Dead, Moderately Decomposed	12 = Hooked,	e Hooked, Ingested					
13 = Dead, Severely Decomposed	13 = Hooked,	= Hooked, Beak					
14 = Dead, Seen by Capt/Crew ONLY	14 = Hooked, Head						
TAG CODES:	15 = Hooked,	Flipper					
0 = Unknown	16 = Hooked,	Carapace					
1 = Tag Applied by Observer	17 = Hooked,	Other/Unknown					
2 = No Tag(s)	18 = Caught II	nside Dredge Chain Bag					
3 = Tag Already Present, Left On	22 = Caught o	n Sweep/Tickler/Rock Chains	3				
4 = Tag Already Present, Removed	23 = Caught in	n Bridles/Cables/Warp					
ADDITIONAL COMMENTS	24 = Inside Me	outh of Trawl Net					
	25 = Inside Be	elly of Trawl Net					
	26 = Inside Co	odend of Trawl Net					
	27 = Caught ir	n Sweep or Footrope of Trawl	Net				
	28 = Contact with Vessel or Vessel Equipment						
	other than Fishing Gear						
	29 = Entangle	d in Gear other than Vessel's					
	Fishing C	Fishing Gear (e.g. Ghost Gear Caught by Vessel)					
	99 = Other	er					

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### **Marine Mammal Biological Sample Log**

The purpose of this log is to record sex, body measurements, and biological samples taken from all incidentally taken marine mammals.

#### Comments

For *each animal*, document how much of the animal was examined (e.g., "only dorsal and lateral sides seen"). Thoroughly sketch and describe identifying characteristics, new and/or healed wounds, the amount and location of scavenger damage and/or decomposition, the firmness and coloration of tissues, condition of the skin (e.g., cracked, sloughing, dull, glossy), the presence or absence of blood (record if bleeding), any missing parts, and smell. Include comments about the animal's behavior on deck and upon release (lethargic, active, calm, vocalizing, struggling, swam away, sank, floated at surface, righted itself, dove, etc.). Also record the amount and location of gear remaining on the animal. Reference each description with the animal's unique PSID # (#1) and be sure to circle which side of the animal is illustrated.

Record any additional information regarding the marine mammal incidental take(s), especially when data are unable to be collected. Reference each comment with its corresponding field name.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Protected Species ID#	Must match the corresponding record	2-digit code	Cannot be unknown.
		on the Incidental Take Log.		
2	Species Name	See Appendix T – Species Codes.	N/A	Cannot be unknown.
3	Species Code	Filled in by FSB staff for data entry.	4-digit code	Cannot be unknown.
		Observers: leave blank.		
4	Sex	See On Deck Reference Guide.	1-digit code	"0".
5	Body Temperature	Take in lateral dorsal musculature	Degrees	Dash.
		temperature.	Fahrenheit to	
		Take as soon as possible after animal	the nearest	
		is brought onboard, before cutting	tenth	
		into the animal.		
6	Blubber Thickness	Measure where the blubber meets	Centimeters,	Dash.
		the muscle, up to and including the	to the nearest	
		skin.	tenth	
7	Total Length	See On Deck Reference Guide.	Whole	Dash.
			centimeters	
8	Axillary Girth	See <u>On Deck Reference Guide</u> .	Whole	Dash.
			centimeters	
9	Hind Flipper or Pectoral	See <u>On Deck Reference Guide</u> .	Whole	Dash.
	Flipper Length		centimeters	
10	Pectoral Flipper Width	See On Deck Reference Guide.	Whole	Dash.
			centimeters	Dash for pinnipeds.
11	Dorsal Fin Height	See <u>On Deck Reference Guide</u> .	Whole	Dash.
			centimeters	Dash for pinnipeds.
12	Fluke Width	See On Deck Reference Guide.	Whole	Dash.
			centimeters	Dash for pinnipeds.
13	Whole Animal Retained	Number collected.	Whole	Cannot be unknown.
			Number	"0" if not collected.
14	Fin Clip/Flipper/Skin	Number collected.	Whole	Cannot be unknown.
	Sample Retained		Number	"0" if not collected.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
15	Jaw Sample Retained	Number collected.	Whole	Cannot be unknown.
			Number	"0" if not collected.
16	Stomach Sample	Number collected.	Whole	Cannot be unknown.
	Retained		Number	"0" if not collected.
17	Blubber Sample	Number collected.	Whole	Cannot be unknown.
	Retained		Number	"0" if not collected.
18	Muscle Sample Retained	Number collected.	Whole	Cannot be unknown.
			Number	"0" if not collected.
19	Reproductive Tract	Number collected.	Whole	Cannot be unknown.
	Sample Retained		Number	"0" if not collected.
20	Head/Skull Sample	Number collected.	Whole	Cannot be unknown.
	Retained		Number	"0" if not collected.
21	Other Sample Retained	Number collected.	Whole	Cannot be unknown.
			Number	"0" if not collected.
22	Snout to Center of Eye	Measure for all Bottlenose Dolphins.	Whole	Dash.
			centimeters	Leave blank for other
				species.
23	Snout to Ear	Measure for all Bottlenose Dolphins.	Whole	Dash.
			centimeters	Leave blank for other
				species.
24	Snout to Flipper	Measure for all Bottlenose Dolphins.	Whole	Dash.
			centimeters	Leave blank for other
				species.
25	Flipper to Anterior	Measure for all Bottlenose Dolphins.	Whole	Dash.
	Insertion		centimeters	Leave blank for other
				species.

# MARINE MAMMAL BIOLOGICAL SAMPLELOG

MARIN	MARINE MAMMAL BIOLOGICAL SAMPLE LOG													Α							
NMFS	FISHERI	ES OBSER	RVER F	PROG	RAM										DA	TE LAN	DED mi	m/yy	В		/
OBBM	M 05/01	/16													PA	GE #			С	0	F
PSID#	SPECIES			SEX		MARINE MA	MMAL MEA	SUREMEN	rs	CE	TACEANS C	NLY		1	NUM	MBER O	F SAMF	PLES TA	KEN		
	NAME		CODE	0=U	Body	Blubber	Total	Axillary	Hind/Pec	Pec Flip	Dorsal Fin	Fluke	Whole	Finclip/	Jaw	Stom	Blub	Musc	Repro	Head/	Other
				1=M	Temp	Thickness	Length	Girth	Flip Len	Width	Height	Width		Flipper/					Tract	Skull	list in
				2=F	°F	cm	cm	cm	cm	cm	cm	cm		Skin							comments
		•			_	•	-			40		40	40		45	40	47	40	40		04
1		2	3	4	э.	0.	1	8	8	10	11	12	13	14	15	10	17	18	19	20	21
					-	-															
																		DOTT			
General Comments:												BOLL	ENOSE	DOLPH	N						
											A Sno		cm)								
																		A. Shout-eye (cm) 22			23
																		C. Snout-blow (cm) 24			24
																		D. Snout-flip (cm) 25			25
																				-	
																		BOTTL	ENOSE	DOLPH	N
																		PSID #			
																		A. Sno	ut-eye (	cm)	
																		B. Sno	ut-ear (d	cm)	
																		C. Sno	ut-blow	(cm)	
																		D. Sno	ut-flip (c	;m)	
Skotch an	d doscribo IC			hody cor	adition note		or domogo	and/or doco	mposition n	ow and/or h		s any goor	on the onim	al oto							
PSID#		Characteristic	s, overain			e any scaveng	jei uamaye		mposition, n			is, any year		ai, eic.							
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#### MARINE MAMMAL BIOLOGICAL SAMPLE LOG OBS/TRIP ID A99025C NMFS FISHERIES OBSERVER PROGRAM DATE LANDED mm/yy 05 16 1 OBBMM 05/01/16 1 OF 2 PAGE # PSID# SPECIES SEX MARINE MAMMAL MEASUREMENTS CETACEANS ONLY NUMBER OF SAMPLES TAKEN CODE Blubber Total Hind/Pec Pec Flip Dorsal Fin Fluke Whole Finclip/ Stom Blub Musc Repro Head/ NAME 0=U Body Axillarv Jaw Other Thickness Length Girth Flip Len Width Height Width Flipper/ Tract Skull 1=M Temp list in °F Skin 2=F cm cm cm cm cm cm cm comments Harbor Porpoise 2 01 87.6 3.5 123 84 19 8 10 30 1 1 0 0 0 0 0 0 0 04 Harbor Seal 1 46.7 2.1 111 77 27 ------------0 0 1 1 1 1 0 0 0 05 **Bottlenose Dolphin** 2 75.8 2.6 202 116 32 16 19 50 0 1 1 1 1 1 1 0 3 BOTTLENOSE DOLPHIN General Comments: PSID # 05 A. Snout-eye (cm) 30 B. Snout-ear (cm) 34 C. Snout-blow (cm) 32 PSID05- Other samples = fetus, heart, and liver 48 D. Snout-flip (cm) BOTTLENOSE DOLPHIN PSID # A. Snout-eye (cm) B. Snout-ear (cm) C. Snout-blow (cm) D. Snout-flip (cm) Sketch and describe ID characteristics, overall body condition, note any scavenger damage and/or decomposition, new and/or healed wounds, any gear on the animal, etc. PSID# 01 Indents around tip of snout & flukes not thru skin- linear, < .2mm in width. White foam No length to beak coming from blowhole. Skin firm like unripe Small, triangular dorsal fin banana, blubber creamy white, muscle deep White maroon color & like meat @ grocery; skin behind L Tag location: white tissue visible eye missing w/blubber visible= 1in wide x 1/4in vith area of skin deep -blood trickle approx. = 1tsp. volume Indentations around Indentations around Circle one:(Left)/ Right Circle one: Dorsal / Ventral



### Sea Turtle Biological Sample Log

The purpose of this log is to record body measurements, scute counts, identification criteria, condition, and biological samples taken from all incidentally taken sea turtles on an individual basis.

Do not record information on terrapins on this log. These animals should be recorded on the Individual Animal Log.

### Comments

For *each animal*, document how much of the animal was examined (e.g., "only dorsal and lateral sides seen"). Thoroughly sketch and describe identifying characteristics (including scute counts), new and/or healed wounds, the amount and location of scavenger damage and/or decomposition, the coloration of tissues, condition of the skin (i.e. cracked, cut), the presence or absence of blood (record if bleeding), any missing parts, and smell. Also, sketch the tag and biopsy location(s). Include comments about the animal's behavior on deck and upon release (lethargic, active, calm, struggling, swam away, sank, floated at surface, righted itself, dove, etc.). Provide details of animal's retrieval and details of the release (lethargic, active, calm, struggling, swam away, sank, floated at surface, righted itself, dove, etc.). Provide details of animal's retrieval and details of the amount and location of gear remaining on the animal, and the time required for resuscitation. Record any additional information regarding the sea turtle incidental take(s), especially when data are unable to be collected. Reference each comment with its corresponding field name.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Protected Species ID #	Must match the corresponding record	2-digit code	Cannot be unknown.
		on the Incidental Take Log.		
2	Species Name	See Appendix T – Species Codes.	N/A	Cannot be unknown.
3	Species Code	Filled in by FSB staff for data entry.	4-digit code	Cannot be unknown.
		Observers: leave blank.		
4	Scanned for PIT Tag	Yes/No.	1-digit code	"9".
5	PIT Tag Number	Obtain from PIT tag scanner.	Alphanumeric	Dash.
			code	
6	Notch to Tip Length	See On Deck Reference Guide.	Centimeters,	Dash.
			to the nearest	
			tenth	
7	Notch to Notch Length	See <u>On Deck Reference Guide</u> .	Centimeters,	Dash.
			to the nearest	
			tenth	
8	Width	See <u>On Deck Reference Guide</u> .	Centimeters,	Dash.
			to the nearest	
			tenth	
9	Vertebral Scute Count	See <u>On Deck Reference Guide</u> .	Whole number	Dash.
10	Lateral Scute Count	See On Deck Reference Guide.	Whole number	Dash.
11	Inframarginal Scute	See On Deck Reference Guide.	Whole number	Dash.
	Count			
12	1 Pair Prefrontals?	Yes/No.	1-digit code	"9".
13	Overlap Scutes	Yes/No.	1-digit code	"9".
14	Dorsal Color Code	Visually confirm.	2-digit code	"00".
15	Number of Samples	Number collected.	Whole number	Cannot be unknown
	Whole Animal			"0" if not collected.
16	Number of Samples	Number collected.	Whole number	Cannot be unknown
	Biopsy/Skin Samples			"0" if not collected.
17	Number of Other	Number collected.	Whole number	Cannot be unknown
	Samples			"0" if not collected.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
18	Behavior on Deck	Observe behavior.	Check all that	Cannot be unknown.
			apply	
19	Reflex Test and	Perform tests, or explain reason not	Check all that	Cannot be unknown.
	Resuscitation	performed in comments.	apply	
		Always comment on results of tests.		
20	Shell (Carapace and	Examine both carapace and plastron.	Check all that	Cannot be unknown.
	Plastron) Condition	If you do not examine both carapace	apply	
		and plastron, mark "Not Examined",		
		in addition to any other applicable		
		boxes.		
21	Head Condition	Examine head.	Check all that	Cannot be unknown.
		Mark "One or both eyes closed/	apply	
		injured" if the eye(s) was(were)		
		closed for longer than a typical blink.		
22	Skin Condition	Examine skin (excluding head and	Check all that	Cannot be unknown.
		flippers).	apply	
23	Flippers Condition	Examine all four flippers.	Check all that	Cannot be unknown.
			apply	
24	Behavior at Release	Observe behavior just prior to release	Check all that	Cannot be unknown.
	Condition	and/or once the turtle is back in the	apply	
		water.		
25	Additional Information	Perform actions, or explain reason	Check all that	Leave blank if none
	Condition	not performed in comments.	apply	applicable.

# SEA TURTLE BIOLOGICAL SAMPLE LOG

NMFS F	MFS FISHERIES OBSERVER PROGRAM										/					
OBBTU	DBBTU         05/01/16										)F					
PSID #	SPECIES			TAGS	MEASUI	REMENTS (	Curv)		IC	DENTIFICAT	ION CRITER	RIA		NUI	MBER OF S	AMPLES
	NAME	CODE	Scan?	PIT Tag Number	Notch-to-	Notch-to-	Width	Vertebral	Lateral	Infra-	1 Pair	Overlap	Dorsal	Whole	Biopsy/	Other
			0=N		Tip	Notch		Scute	(Costal)	marginal	Pre-	Scutes?	Color		Skin	
			1=Y		Length	Length		Count	Scute	Scute	frontals?		Code			list in
					cm	cm	cm		Count	Count	0=N,1=Y	0=N,1=Y				comments
1	2	3	4	5	6.	7.	8.	9	10	11	12	13	14	15	16	17
D	irections: Mark the boxes belo	w for ar	iy condi	tions that apply for PSID a	bove, mark all o	options that	apply. Y	ou must marl	at least 1 b	ox for each	category. P	rovide mor	e comments	and details	where instr	ucted.
	DORSAL COLOR CODE (Abo	ve)		20 Shell (Ca	rapace and Pla	stron)		22		Skin		24		Behavior a	at Release	
01	= Black			No cracks/chips	/injuries observe	ed		N	injuries/wou	nds/bleeding	observed		Eyes op	en at release	9	
02	= Gray-Green			If yes to following, pro	vide comments	& photo/vide	eo	If yes to follo	wing, provide	e comments	& photo/vide	90	Lifting he	ead to breath	า	
03	= Orange/Red-Brown			Shell crack with	bone or tissue	visible		Ar	y indents, ab	rasions, swe	lling,		All flippe	rs moving/fla	apping	
04	= Brown			Crack includes	vertebral scutes				lacerations	or bleeding	seen		Immedia	itely dove		
99	= Other			Crack with shar	p/clean edges			E>	ternal bleedir	ng from skin			Seen in	n in water after release		
00	= Unknown			Crack includes	marignal scutes			Cut/injury through skin (no bleeding) If yes to following, provide comment						omments & p	photo/video	
18	Behavior on Deck			Only marignals	cracked, <50%	width		BI	eding seen v	while tagging	/biopsy		Still no r	esponse to r	eflex tests	
	Eyes open while on deck			Only marginals	cracked, =>50%	width		BI	eding from a	loaca (anus			Moving s	sluggish/slov	v once in wat	er
	Lifting head to breath			Superficial scuf	fs/chips/abrasior	ns observed		Ba	rnacles prese	ent			Head or	flippers han	gling limply	
	All flippers moving/flapping			Barnacles prese	ent			AI	gae present				Gear on	animal		
If yes to	o following, provide comments &	photo/vi	deo	Algae present				Worms/parasites present Circling/listing once in water					n water			
	Moving sluggish/slow			Not examined		Not examined							Upside o	down/can't rig	ght itself onc	e in water
	No movement seen			21	Head			23 Flippers Surfaced after diving								
	Head or flippers hanging limply			No injuries/wou	nds/bleeding ob	served		No injuries/wounds/bleeding observed Stays at surface, does not dive								
19	Reflex Tests and Resuscita	ation		If yes to following, pro	vide comments	& photo/vide	eo	If yes to following, provide comments & photo/video							rver not pres	sent
If yes to	o following, provide comments on	the read	ction	One or both eye	es closed/injured	I		Ar	nputation of <	50% of flipp	er		Not seer	n once in wa	ter	
	No reflex test performed, explain	۱		Any bones or m	uscle visible			Ar	nputation of =	=>50% of flip	per	25		Additonal I	nformation	
Touch corner/upper eyelid (both eyes) Object seen in/coming from mouth								W	hole or broke	n bone visib	le in wound		Sampling c	ompleted an	d waiting to	release
	Tail or flipper pinch (all 4 flippers) Discharge/bleeding/growth seen							So	ft tissue expo	osed/involve	b		Protecte	d from elem	ents	
	Rocking side to side			from eyes/n	ares/mouth			Ar	y indents, ab	rasions, swe	lling,		Anything	put over ey	es, nares no	t covered
	Lightly splashing water on face			Any indents, ab	rasions, swelling	<b>]</b> ,			lacerations	or bleeding	seen		Ac	ditonal relea	ase details	
	Touch soft tissue around nose			lacerations	or bleeding seer	า		Not examined Boat in neutral and gear out					ear out of wa	ater		
	Put in resuscitation position			Barnacles prese	ent			Released off stern of boat								
	Duration(hrs): No other boats in immediate area															
Comments	: Using the boxes above as a gu	ide, prov	vide com	ments and sketches to desc	ribe ID characte	ristics, overa	II conditio	n of carapace	, plastron and	soft tissue,	note any sca	avenger dar	nage and/or d	ecompositio	n,	

new and/or healed wounds, tag and biopsy location, any gear on animal, results of reflex tests/resuscitation, details of retrieval, details of release and any other relevant information. Sketches and space for more comments available on back of log.

Α

OBS/TRIP ID

# SEA TURTLE BIOLOGICAL SAMPLE LOG

NWF2	FISHERIES OBSERVER	IVI						DATE I	_ANDED mm	1/уу	06	/ 16					
OBBT	J 05/01/16											PAGE	#		1 0	)F 2	
PSID #	SPECIES			TAGS MEASUREMENTS (Curv)					10	DENTIFICAT	ION CRITER	RIA		NU	NUMBER OF SAMPLES		
	NAME	CODE	Scan?	PIT Tag Number	Notch-to-	Notch-to-	Width	Vertebral	Lateral	Infra-	1 Pair	Overlap	Dorsal	Whole	Biopsy/	Other	
			0=N		Tip	Notch		Scute	(Costal)	marginal	Pre-	Scutes?	Color		Skin		
			1=Y		Length	Length		Count	Scute	Scute	frontals?		Code			list in	
					cm	cm	cm		Count	Count	0=N,1=Y	0=N,1=Y				comments	
01	Green Turtle		1		38.5	38.1	33.2	5	4	4	1	0	04	0	2	0	
	Directions: Mark the boxes below	w for ar	ny condi	tions that apply for PSID al	oove, mark all o	options that	apply. Yo	ou must mark	at least 1 b	ox for each	category. P	rovide more	e comments	and details	where instr	ucted.	
	DORSAL COLOR CODE (Abo	ove)		Shell (Cara	pace and Plast	tron)		<b>—</b>	S	kin			ا ا	Behavior at	Release		
01	= Black			No cracks/chips	/injuries observ	ed		X No	injuries/wou	nds/bleeding	g observed	X	Eyes op	en at release	Э		
02	= Gray-Green			If yes to following, pro	vide comments	& photo/vide	90	If yes to follo	wing, provide	e comments	& photo/vide	o X	Lifting he	ead to breath	ו		
03	= Orange/Red-Brown			X Shell crack with	bone or tissue	visible		An	y indents, ab	rasions, swe	elling,	X	All flippe	ers moving/fla	apping		
04	= Brown			X Crack includes	vertebral scutes	;			lacerations	or bleeding	seen		Immedia	ately dove			
99	= Other			X Crack with shar	p/clean edges			Ext	ernal bleedir	ng from skin		x	X Seen in water after release				
00	= Unknown			Crack includes	Crack includes marignal scutes					gh skin (no l	pleeding)	lf	yes to followir	ng, provide c	omments &	ohoto/video	
	Behavior on Deck			Only marignals	cracked, <50%	width		Ble	eding seen v	while tagging	g/biopsy		Still no r	esponse to r	eflex tests		
	Eyes open while on deck			Only marginals	Only marginals cracked, =>50% width					loaca (anus	)		Moving :	sluggish/slov	v once in wa	er	
	Lifting head to breath			X Superficial scuff	s/chips/abrasio	ns observed		Ва	macles pres	ent			Head or	flippers han	gling limply		
	All flippers moving/flapping			Barnacles prese	ent			Alg	ae present				Gear on animal				
If yes	to following, provide comments &	photo/vi	deo	X Algae present				Wo	orms/parasite	es present		x	X Circling/listing once in water				
	Moving sluggish/slow			Not examined				No	t examined				Upside down/can't right itself once in water				
x	No movement seen				Head			_	Flip	pers			Surfaced	d after diving	I		
x	Head or flippers hanging limply			No injuries/wou	nds/bleeding ob	served		X No injuries/wounds/bleeding observed X Stays at surface, doe							es not dive		
	Reflex Tests and Resuscitati	ion		If yes to following, pro	vide comments	& photo/vide	eo	If yes to following, provide comments & photo/video Releas							erver not pres	ent	
If yes	o following, provide comments on	the read	ction	X One or both eye	es closed/injured	ł		Arr	putation of <	50% of flipp	er		Not seer	n once in wa	ter		
	No reflex test performed, explain	٦		Any bones or m	uscle visible			Am	putation of =	=>50% of flip	per		А	dditonal Inf	ormation		
x	Touch corner/upper eyelid (both	eyes)		Object seen in/o	coming from mo	outh		Wł	ole or broke	n bone visib	le in wound		Sampling c	ompleted an	d waiting to	elease	
x	Tail or flipper pinch (all 4 flippers	s)		Discharge/bleed	ling/growth see	n		So	t tissue expo	osed/involve	d	x	Protecte	d from elem	ents		
x	Rocking side to side			from eyes/n	ares/mouth			Any indents, abrasions, swelling, X Anything put over eyes, nares not a							covered		
x	Lightly splashing water on face			Any indents, ab	rasions, swelling	g,		lacerations or bleeding seen Additonal release details									
x	Touch soft tissue around nose			lacerations	or bleeding see	n		No	t examined			x	Boat in r	neutral and g	ear out of wa	ater	
x	Put in resuscitation position			Barnacles prese						X Released off stern of boat							
	Duration(hrs): 6.5_			Not examined					x	No other	boats in im	mediate area	l				
								,									

Comments: Using the boxes above as a guide, provide comments and sketches to describe ID characteristics, overall condition of carapace, plastron and soft tissue, note any scavenger damage and/or decomposition, new and/or healed wounds, tag and biopsy location, any gear on animal, results of reflex tests/resuscitation, details of retrieval, details of release and any other relevant information. Sketches and space for more comments available on back of log.

Turtle was identified by one pair of pre-frontals, 4 lateral scutes, 4 inframarginal scutes without pores, brown carapace color with starburst like pattern. Turtle came up in codend and was dumped with catch, landed right side up and was covered by a layer of fish. Turtle was inactive with no movement seen. Observer brought to side of deck to sample, carrying by a hand on either side of the shell. Observer performed reflex tests marked above, all elicited no response or movement. While examining animal observer saw thick, dark green algae present on the first two vertebral scutes. Also noted a ~8in crack in carapace going from 3rd left lateral scute across 4th vertebral scute to the 4th right lateral scute. Crack had a clean edge but slight flaking of outer layer of carapace seen, bone exposed in center of crack, no muscle or other tissue seen in wound. Crack was ~2-3mm across. In center of plastron there was a diamond shaped area that was dark reddish brown, no texture or wound seen just discolored. Once turtle was examined, sampled and measured observer used a checkpen board leaning against a pile of rope to support turtle while in resuscitation position. Observer did same reflex tests every hour, did not see any change for first

OBS/TRIP ID

A99021-



Additonal space for comments (if needed):

4 hours. When checking at the four hour mark there was a slight twitch when rubbing above left eye, but no reaction for other tests. At five hour mark slight withdraw of left flippers when pinched and both eyes were now open. Still very lerthargic and not much movement so left in resuscitation position. When checking at the 6.5 hour mark it was actively moving. When observer came out on deck it had moved off of board under its own power and was actively moving around deck, lifting head to breathe, all flippers seen moving. Pinched tail and flippers to make sure it was alert and all pinches illicated a withdraw response of a couple inches. Gear was still in water but near end of a tow so talked with captain and decided since it was day 3 of 10 day trip it was best to get turtle back in the water once gear was back on board. For the next 45 minutes turtle was corralled into corner of deck and a damp cloth was placed over eyes and a wet towel was placed over carapace. Once gear was back on deck and boat in neutral turtle was carried to stern of vessel by observer and released down stern ramp. It initially went under water but surface about 2 seconds later and was swimming in circles at the surface until it was out of sight, boat was steaming away once turtle was released. Observer saw it for about 2 minutes while at surface and it was circling the entire time. Total time on deck was about 7.5 hours.

### **Protected Species Sighting Log**

The purpose of this log is to record all protected species sightings. This information is critical in determining the temporal and spatial distribution of protected species, and the relative abundance and behavior of animals in the vicinity of fishing operations. Seabird sightings are not recorded here.

All protected species observed during a deployment, which are determined not to be incidental takes by the observer, are recorded on the <u>Protected Species Sighting Log</u>. An animal must not be recorded on both the Protected Species Sighting Log **and** the <u>Marine Mammal, Sea Turtle, and Seabird Incidental Take Log</u>. See the <u>Incidental Takes and</u> <u>Protected Species Information</u> section of the <u>2016 Observer Operations Manual</u> for more detailed instructions on deciding when an animal is a sighting versus an incidental take. An animal determined to be an incidental take is recorded on the <u>Marine Mammal, Sea Turtle, and Seabird Incidental Take Log</u>.

### Sighting Types

**On-Effort Sightings**: A sighting of a protected species made while conducting a dedicated protected species watch. See the <u>Gillnet Fishery</u> instructions in the <u>2016 Observer Operations Manual</u>.

**Off-Effort Sightings**: An opportunistic sighting of a protected species made at a time when the observer is not conducting a protected species watch. **Example:** While observing a trawl haul back, a group of common dolphins are sighted about 50 meters from the vessel. This is considered an off-effort sighting.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Today's Date	Date event(s) occurred.	MM/DD/YY	Cannot be unknown.
2	Event Number	Sequential for each sighting event.	2-digit code	Cannot be unknown.
		Start at 1 for each new day.		
3	Event Time	Local time at start of event.	HH:MM (24hr)	Dash and record
				estimated time in
				comments.
4	Event Type Code	Sightings made during a protected	2-digit code	"00".
		species watch are always "On-effort,		
		during dedicated watch" (08).		
5	Position Code	If the sighting is made by the captain	2-digit code	"00".
		or crew only, record "Other" (99) and		
		describe in comments.		
6	Haul Number	Haul where event occurred.	Whole number	Dash.
				Dash if the event does
				not occur on a haul.
7	Latitude/Longitude or	Collect at time of initial sighting.	DD MM.M	Dash.
	Loran			
8	Weather Code	See Appendix K – Weather Codes.	2-digit code	"00".
9	Wave Height	Estimated by observer and/or	Whole feet	Dash.
		captain.		
		Beginning of haul; not a range.		
		Record "0" if less than 6 inches.		
10	Comments?	Yes/No.	1-digit code	Cannot be unknown.
11	Species Name	See Appendix T – Species Codes.	N/A	Cannot be unknown.
12	Species Code	Filled in by FSB staff for data entry.	4-digit code	Cannot be unknown.
		Observers: leave blank.		
13	Number of Animals	Count.	Whole number	Dash.
14	Sight Cue Code	Describes first sighting	1-digit code	"0".

### Protected Species Sighting Log

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
15	Animal Condition Code	See Appendix R – Animal Condition	2-digit code	"00".
		Code.		
16	Animal Behavior Code	See Appendix S – Animal Behavior	2-digit code	"00".
		Code.		

# PROTECTED SPECIES SIGHTING LOG

PROTECTED SPECIES SIGHTING LOG DATE LANDED mm/yy											у	в	/					
NMFS F	ISHERIE	ES OB	SER	VER F	ROGRA	M							PAGE #			c	OF	
OBSIG	05/01/1	6											TODAY'S	DATE mm/d	d/yy	1	/ /	
EVENT #	EVENT	EVENT	POSN	HAUL		LATITUDE/LONGITUDE (I	DD MM.M) -	LORAN (XXXXX)	WEA-	WAVE	COMM-	SPE	ECIES		#ANIM	SIGHT	ANIM	ANIM
	TIME	TYPE	CODE	NUM	Station 1	Latitude/ Bearing	Station 2	Longitude/ Bearing	THER	HGT	ENTS?	NAME		CODE		CUE	COND	BEHVR
	24 hours	CODE							CODE	ft	0=N, 1=Y					CODE	CODE	CODE
					0060		0060											
<b>2</b> 1	3	4	5	6	9900-	7	9900-		8	9	10	11		12	13	14	15	16
	-	-	-	-					-	-								
					9960-		9960-											
2	:																	
					9960-		9960-											
3	:				0000		0000											
					9960-		9960-											
4	:						-				-							
					9960-		9960-											
5	:																	
					0060		0060											
6	:				9900-		9900-											
	-																	
					9960-		9960-											
7	:																	
					9960-		9960-											
8	:																	
0					9960-		9960-											
9	•								-									
					9960-		9960-											
0	:																	
EVENT TYP	E CODES:				POSITION	CODES:		SIGHT CUE CODES:			ANIMAL CO	ONDITION CODES:			ANIMA	BEHA	IOR CO	DES:
08 = On-eff	ort, during de	edicated v	watch		00 = Unkn	own		0 = Unknown			00 = Unkno	own			00 = U	nknown		
10 = Off-eff	ort, vessel a	ctivity unk	known		01 = Bow,	facing wind		1 = Sighted with naked eye	9		01 = Alive,	see comments			01 = N	ear gear	, physical	contact
11 = Off-eff	ort, Vessel s	top/ancho	or/drift		08 = Bow,	facing sideways		2 = Sighted with binoculars	6		04 = Alive,	hook/gear in/around mou	th		02 = N	ear gear	, within 50	) meters
12 = Off-eff	ort, sitting on	n gear			02 = Whee	elhouse, facing forward		3 = First sighted by capt/cr	ew		05 = Alive,	hook/gear in/around flipp	er		03 = N	ear gear	, 51-150 i	meters
13 = Off-eff	ort, transiting	or searc	ching		03 = Whee	elhouse, facing backward		then by observer			06 = Alive,	hook/gear in/around othe	r body part		04 = F	eeding o	n catch	
14 = Off-eff	ort, towing g	ear			09 = Whee	elhouse, facing sideways		4 = Sighted by capt/crew C	ONLY		07 = Alive,	hook/gear in/around seve	eral body parts	S	05 = P	orpoising	I	
15 = Off-eff	ort, hauling ir	n gear			04 = Work	deck, facing backward		9 = Other			08 = Alive,	seen by capt/crew ONLY			06 = B	ow riding		
16 = Off-eff	ort, setting o	ut gear			05 = Work	deck, facing sideways					10 = Dead	, condition unknown			07 = B	reaching		
19 = Off-eff	ort, pumping	catch			06 = Starb	oard side, facing net					11 = Dead	, fresh			08 = S	wimming	at surfac	e
					07 = Port s	side, facing net					12 = Dead	, moderately decomposed			09 = N	lilling		
GENERAL					99 = Other	r					13 = Dead	, severely decomposed			10 = N	lotionless	at surface	ce
00 = Unkno	wn										14 = Dead	, seen by capt/crew ONLY	,		11 = V	essel ave	oidance	
99 = Other											NOTE: If me	ore than one code applies	, choose the o	one	12 = V	essel att	raction	
											that describ	es the most specific cond	of the anima		99 = O	ther		

Α

OBS/TRIP ID

# PROTECTED SPECIES SIGHTING LOG

													OBS/TRIP	ID			A9901	0L
PROTE	CTED S	PECIE	S SIG	HTIN	g log								DATE LAN	IDED mm/y	У	05	/	16
NMFS F	ISHERI	ES OB	SER	/ER F	ROGRA	M							PAGE #			1	OF	2
OBSIG	05/01/1	6											TODAY'S	DATE mm/d	ld/yy	05	i / 10	/ 16
EVENT #	EVENT	EVENT	POSN	HAUL		LATITUDE/LONGITUDE (D	D MM.M) - I	_ORAN (XXXXX)	WEA-	WAVE	COMM-	SPE	CIES		#ANIM	SIGHT	ANIM	ANIM
	TIME	TYPE	CODE	NUM	Station 1	Latitude/ Bearing	Station 2	Longitude/ Bearing	THER	HGT	ENTS?	NAME		CODE		CUE	COND	BEHVR
	24 hours	CODE				Bearing			CODE	ft	0=N, 1=Y					CODE	CODE	CODE
0 1	10.10	08	06	3	9960-	42° 24 3	9960-	70° 41 2	03	4	1	Whitesided Dolphin			22	1	01	05
<u> </u>	10.10			•		42 24.0		10 41.2	00	-	•	Winteslaca Dolphin				-	•	00
					9960-		9960-											
<b>0</b> 2	10:11	08	06	3		42° 24.7		70°41.2	03	4	1	Humpback Whale			1	1	01	08
					0060		0060											
0 3	11:14	13	02		9900-	42° 25.1	9900-	70° 40.3	03	4	1	Finback Whale			3	2	01	08
					9960-		9960-											
4																		
					9960-		9960-											
5	:																	
6					9960-		9960-											
°	•																	
					9960-		9960-											
7	:																	
					9960-		9960-											
8	-				3300-		9900-											
					9960-		9960-											
9	:																	
					9960-		9960-											
0	:																	
EVENT TYP	E CODES:				POSITION (	CODES:	•	SIGHT CUE CODES:	•		ANIMAL CO	ONDITION CODES:		•	ANIMA	L BEHA	IOR CO	DES:
08 = On-eff	ort, during de	edicated v	watch		00 = Unkno	own		0 = Unknown			00 = Unkn	own			00 = U	nknown		
10 = Off-eff	ort, vessel a	ctivity unk	nown		01 = Bow,	facing wind		1 = Sighted with naked eye			01 = Alive,	see comments			01 = N	ear gear	, physical	contact
11 = Off-eff	ort, Vessel s	top/ancho	or/drift		08 = Bow,	facing sideways		2 = Sighted with binoculars			04 = Alive,	hook/gear in/around mout	th		02 = N	ear gear	, within 50	) meters
12 = Off-eff	ort, sitting or	gear			02 = Whee	Ihouse, facing forward		3 = First sighted by capt/cr	ew		05 = Alive,	hook/gear in/around flippe	er		03 = N	ear gear	, 51-150 i	meters
13 = Off-eff	ort, transiting	or searc	hing		03 = Whee	Ihouse, facing backward		then by observer			06 = Alive,	hook/gear in/around other	r body part		04 = F	eeding o	n catch	
14 = Off-eff	ort, towing g	ear			09 = Whee	Ihouse, facing sideways		4 = Sighted by capt/crew C	NLY		07 = Alive,	hook/gear in/around seve	ral body parts	6	05 = P	orpoising	I	
15 = Off-eff	ort, hauling i	n gear			04 = Work	deck, facing backward		9 = Other			08 = Alive, seen by capt/crew ONLY			06 = B	ow riding			
16 = Off-eff	ort, setting o	ut gear			05 = Work	deck, facing sideways					10 = Dead, condition unknown			07 = B	reaching			
19 = Off-eff	ort, pumping	catch			06 = Starbo	oard side, facing net					11 = Dead	, fresh			08 = S	wimming	at surfac	e
					07 = Port s	ide, facing net	12 = Dead, moderately decomposed			09 = N	lilling							
GENERAL 99 = Other							13 = Dead	, severely decomposed			10 = N	lotionless	at surface	ce				
00 = Unkno	wn										14 = Dead	, seen by capt/crew ONLY			11 = V	essel avo	oidance	
99 = Other											NOTE: If m	ore than one code applies,	choose the o	one	12 = V	essel att	raction	
											that describ	es the most specific cond.	of the anima	I	99 = C	ther		

		OBS/TRIP ID	A99010L
		DATE LANDED mm/yy	05 / 16
		PAGE #	2 OF 2
		TODAY'S DATE mm/dd/yy	05 / 10 / 16

EVENT #	COMMENTS	EVENT #	COMMENTS
01	Whitesided dolphins IDed by tan patch over white on hind flank, short beak with black top and white bottom, black dorsal body coloration. Two animals half the size of others in group assumed to be calves. Porpoising along behind another fishing vessel towing gear amidship of this vessel off our port side. Other vessel was headed northeast. Animals were approx. 100 meters to the stern of the vessel and 1/4 mile from our vessel.		
02	Long, white pectoral flippers seen through the water. Fluke underside had white pattern against black background with a scalloped trailing edge Photographed the underside of fluke (see photo log). While gear was being hauled in whale approached the vessel swimming at the surface from 1/4 mile off starboard stern to within 250 meters amidship and the lifted its fluke and dove. Not seen again.		
03	Three whales sighted by tall blows 1/2 mile off port amidship with swimming heading of 330 degrees swimming toward the vessel. All three animals had falcate dorsal fins set far back on the body. The blow was visible first and then the dorsal fin. All three dove in a wheel like motion exposing the dorsal fin. No flukes seen. Animals were spaced approximate 100 meters apart from one another.		
		1	1
# **Pinger Tester Worksheet**

The purpose of this worksheet is to record the location, brand and condition of Active Deterrent Devices (ADD) or pingers on gillnet gear. On **limited sampling gillnet trips**, all pingers should be tested, when pingers are present. On **complete sampling trips**, no pingers will be tested until an incidental take of a marine mammal occurs, in which case the pingers on both sides of the marine mammal and the remaining pingers for that haul should be tested and recorded.

If pingers were tested and a <u>Pinger Tester Worksheet</u> submitted, record Program Code "101" on the <u>Vessel and Trip</u> <u>Information Log</u>.

#### Comments

Provide details on any other or unknown codes, any reason(s) pingers were not tested, and any other information regarding the pingers (e.g., a broken pinger, a unique pinger location set-up). If any issues with the pinger tester arise, provide details concerning how the tester was operating, any errors encountered, and specific details about the problem experienced.

Pingers should be located on each end of the gear and on the bridles between each net panel. If you see a pinger in a different position than those mentioned, provide details about where it was in the gear. If extra pinger(s) are on the gear, record them in the order that they came onboard. Comment where the extra pinger(s) are located.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Pinger Tester Number	Found at the base of the handle on	Whole number	Dash.
		the battery opening.		
2	Haul Number	Haul on which pingers were tested.	Whole number	Dash.
3	Pinger Number	Sequential for each pinger in order of time hauled. If the number of pingers used exceeds 25, continue recording pinger positions using the following HAUL NUMBER (#2) column and renumber the PINGER NUMBER to match pinger positions.	Pre-filled field	Cannot be unknown.
4	ADD Condition Code	Determine audibly or with tester.	1 digit code	"0". Record "0" if not tested and comment.
5	ADD Brand Code	Visually confirm	2 digit code	"00". Record "00" if not tested and comment.

#### **PINGER TESTE NMFS FISHERI** 05/01/16

PINGER TES	TER WORKS	HEET			OBS/TRIP ID A					
NMFS FISHE	RIES OBSER	VER PROGR	AM		DATE LANDED r	nm/yy	В	/		
05/01/16					PAGE #		С с	f		
					PINGER TESTER	R #	1			
HAUL #	2		HAUL #			HAUL #				
PINGER #	ADD COND CODE	ADD BRAND CODE	PINGER #	ADD COND CODE	ADD BRAND CODE	PINGER #	ADD COND CODE	ADD BRAND CODE		
<b>3</b> 1	4	5	1			1				
2			2			2				
3			3			3				
4			4			4				
5			5			5				
6			6			6				
7			7			7				
8			8			8				
9			9			9				
10			10			10				
11			11			11				
12			12			12				
13			13			13				
14			14			14				
15			15			15				
10			10			10				
18			18			18				
19			19			19				
20			20			20				
21			21			21				
22			22			22				
23			23			23				
24			24			24				
25			25			25				
ACTIVE DETE	RRENT DEVIC	E (ADD) COND	ITION CODES:		ACTIVE DETE 00 = Unknown	RRENT DEVIC	E (ADD) BRAN	D CODES:		
1 = No pinger					01 = Dukane					
2 = Audible, No	ot Tested				02 = Airmar					
3 = Inaudible, T	ested and Wor	king			03 = Fumunda					
4 = Inaudible,T	ested and Not V	Working			04 = Future Oc	eans LED				
5 = Inaudible, N	lot Tested				99 = Other (Co	mment)				
6 = Absent (Los	st)									
7 = Audible, Te	sted and Worki	ng								
8 = Audible, Te	sted and Not W	orking								
COMMENTS										

#### PINGER TESTER WORKSHEET

#### NMFS 05/01/1

PINGER TES	TER WORKS	HEET			OBS/TRIP ID	A99	002L	
NMFS FISHE		RVER PROGR	АМ		DATE LANDED r	nm/yy	06	/ 16
05/01/16					PAGE #		1 0	of <b>3</b>
					PINGER TESTER	R #	1	5
HAUL #	1		HAUL #	2		HAUL #	3	
PINGER #	ADD COND CODE	ADD BRAND CODE	PINGER #	ADD COND CODE	ADD BRAND CODE	PINGER #	ADD COND CODE	ADD BRAND CODE
1	8	03	1	8	03	1	7	03
2	8	03	2	8	03	2	3	02
3	3	03	3	8	03	3	3	03
4	7	03	4	7	03	4	7	03
5	8	03	5	4	03	5	7	03
6	3	03	6	8	03	6	7	02
7	3	03	7	7	03	7	8	03
8			8	7	03	8	7	02
9			9	7	03	9	3	02
10			10			10	6	00
11			11			11		
12			12			12		
13			13			13		
14			14			14		
15			15			15		
16			16			16		
17			17			17		
18			18			18		
19			19			19		
20			20			20		
21			21			21		
22			22			22		
23			23			23		
24			24			24		
	KREINT DEVIC	E (ADD) COND	THON CODES.				E (ADD) BRAN	D CODE3.
1 – No pinger					00 – Olikilowi 01 – Dukane			
2 = Audible Nc	ot Tostod				01 = Dukane			
3 = Inaudible 1	Fested and Wor	kina			02 = Fumunda			
4 = Inaudible, T	ested and Not \	Norking			04 = Future Oc	eans I FD		
5 = Inaudible, N	Not Tested	literating			99 = Other (Co	mment)		
6 = Absent (I or	st)							
7 = Audible Te	ested and Worki	ina						
8 = Audible, Te	sted and Not W	/orking						
COMMENTS		5						
	Haul 2: Ping	er # 5 not woi	king, plastic	casing broke	en, captain re	placed		

Haul 3: No pinger present at end of string after last net; captain confirmed it was lost

# **Individual Animal Log**

This log is used to record all pelagic species, sturgeons, terrapins, and tagged fish and shellfish caught in a particular haul. See <u>Appendix</u> T – Species Codes for a list of all species and the log on which they are recorded. *Any animal recorded on this log should NOT also be recorded in the <u>Haul Log</u> Species Summary section.* 

Record parts (fins, chunks) on the species section of the <u>Haul Log</u>; record carcasses with an estimated length and dressed weight on the <u>Individual Animal Log</u>.

#### Comments

Record identification characteristics for each animal (particularly individual sharks, rays, and sturgeons), regardless of whether photographs were taken. Record any additional information regarding the animal(s) (e.g., samples collected, processing types, explanation for data that cannot be collected). If animals cannot be photographed, indicate why and give details, perhaps providing drawings of the characteristics for which photos would be requested (e.g., identifying species characteristics, tag locations). Remember, cameras can be lost and photos can be blurry or corrupted, so describe thoroughly and take multiple photos.

Also, be sure to include any tag recapture information, such as tagging program, tag description and location, phone number, etc. If more room is needed, use the back of this log, making sure to indicate "SEE BACK" on the front of the log in the comments. Reference each comment with its corresponding animal sequence number and field name.

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
1	Gear Number	Must match the corresponding Gear Characteristics Log.	2-digit code	Cannot be unknown.
2*	Sequence Number	Sequential for each animal caught on this haul.	Whole number	Cannot be unknown.
3*	Species Name	See Appendix T – Species Codes.	N/A	Cannot be unknown.
4	Species Code	Filled in by FSB staff for data entry. Observers: leave blank.	4-digit code	Cannot be unknown.
5	Initial Status	Determined by observer.	1-digit code	"0".
6*	End Status	Determined by observer. If animal is kept, end status must be "dead".	1-digit code	"0".
7*	Fish Disposition	Obtain reason from captain. See Appendix M – Fish Disposition Codes.	3-digit code	"900" and comment.
8	Processing Type	Final processing.	2-digit code	"00".
9*	Weight	Observer actual weight preferred. Otherwise observer or captain's estimate, indicated by Estimation Method.	Pounds Actual or <1lb: to the nearest tenth Estimated >1lb: whole	Dash. Do not record for terrapins.
10*	Dressed or Round	Determined by observer. Status of this species/disposition when it was weighed. Dressed includes carcasses or gutted animals.	D/R	Cannot be unknown.

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
11*	Estimation Method	Determined by the observer. Method used to estimate this species/disposition. See Appendix N – Estimation Method Codes.	2-digit code	Cannot be unknown.
12*	Tag Number	Tag attached by observer and/or already present on animal. Photograph tag location.	Alphanumeric code NEFOP and IFS: up to 4 unique tag numbers per animal ASM: record secondary tag number under 12a	Dash.
13*	Tag Code	Already present or applied by observer.	1-digit code ASM: record secondary tag code under 13a	"0". Record "2" if no tag on animal.
14	Data Storage Tag?	Yes/No.	1-digit code	"9".
15*	Standard Length #1	See <u>On Deck Reference Guide</u> . If unable to measure, record estimate in #17 (NEFOP and IFS) or comments (ASM), and explain reason in comments.	Whole centimeters	Dash.
16	Standard Length #2	See On Deck Reference Guide.	Whole centimeters	Dash.
17	Estimated Length	Estimate of Standard Length #1. Record estimates of other lengths in comments.	Whole centimeters	Dash. Leave blank if actual length measured.
18	Sex	See On Deck Reference Guide.	1-digit code	"0".
19	Bio. Samples Taken?	Yes/No.	1-digit code	"9".
20	Photo(s) Taken?	Yes/No.	1-digit code	"9".

INDIV	IDUA	L ANIMAL LOG												DATE	LANDED m	m/yy	В	/	
NMFS	S FISH	HERIES OBSERVER P	ROGRAM											PAGE	#		c	OF	
OBIA	L 05	/01/16												HAUL	#		F		
GEAR	SEQ	SPECIES		INTL	END	FISH	PROC	W	EIGHT		ТА	G		I	LENGTHS ci	m	SEX	BIO-	PHOTO
#	#	NAME	CODE	STAT-	STAT-	DISP	CODE	POUNDS	MKT	EST.	NUMBER(S)	CODE	DATA	#1	#2	Est (#1)	0=U	SAMP	TAKEN?
				US	US	CODE			D/R	METH-	-		STORAGE				1=M	0=N	0=N
				CODE	CODE					OD			TAG?				2=F	1=Y	1=Y
													0=N, 1=Y						
1	<b>2</b> 1	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20
	2																		
	3																		
	4																		
	5																<u> </u>		
	6																		
	7																		
	8																		
COMME		ist identifying sharestaristics are	h oo fin nloopmou	at relativ		r hadu n	orto oci	aration has	d and to	ilahana	nreasenes/shaanse of later	al and/ar a	al aquitaa (atur		anas of anim		<u> </u>		
Also inc	lude tag	recapture information such as ta	agging program, I	phone nu	imber, e	tc.	ans, coi	oration, nea	u anu la	li snape	e, presence/absence of latera	ai anu/or ai	iai scules (slui	geon), pres	ence of spine	es, elc.			
																MEASU	JREMEN	TS:	
																Finfish,	, Squid -	cm	
																Shellfis	sh - mm		
																STAND	ARD LE	NGTHS:	
																		#1	#2
																Swordfi	sh (c)	LJFL	СК
STATUS	CODES	B: PROCESSING CODES:						WEIGHT MA	ARKET	ODES:	TAG CODES:		ESTIMATION M	ETHOD CO	DES:	Billfish	(c)	LJFL	PFL
0 = Unkr	iown	00 = Unknown	06 = Dressed (H	leaded a	nd Gutte	d)		D = Dressec	ł		0 = Unknown		01 = Actual, spri	ng scale		Tuna		FL	PFL
1 = Alive		01 = No Processing	07 = Dressed (⊦	leaded, C	Sutted, Fi	nned)		R = Round			1 = Tag Applied by Observer	r (	04 = Estimated b	oy captain		Shark		FL	TL
2 = Dea	d	02 = Chunked	08 = Dressed (H	leaded, C	Sutted, Ta	ailed)					2 = No Tag(s)		05 = Tally			Sturgeo	n	FL	None
3 = Dead	l, Dama	ged 03 = Filleted	09 = Dressed (⊦	leaded, C	Butted, Fi	nned, Ta	ailed)				3 = Tag Already Present, Let	ft On	06 = Visually Es	timated by o	bserver	Ray		TL	DW
4 = Dead	d, Head	only 04 = Dressed (Gutted only)	99 = Other								4 = Tag Already Present, Re	moved	11 = Actual, ele	ectronic scal	le	Terrapii	n	TL	NL
		05 = Dressed (Finned only)									5 = Carcass Tagged (fish on	ly)	99 = Other, desc	cribe in COM	IMENTS	Other		FL	None

OBS/TRIP ID

Α

# INDIVIDUAL ANIMAL LOG

												OBS/TRIP ID			A99015C		5C		
INDI	/IDU	AL ANIMAL LOG												DATE L	ANDED mr	m/yy	06	/	16
NMF	S FIS	SHERIES OBSERVER PRO	OGRAM											PAGE #	1		2	OF	5
OBI/	L C	5/01/16												HAUL #				0 0 1	
GEAR	SEC	SPECIES		INTL	END	FISH	PROC	W	EIGHT		TAG	3		LE	ENGTHS cr	n	SEX	BIO-	РНОТО
#	#	NAME	CODE	STAT-	STAT-	DISP	CODE	POUNDS	MKT	EST.	NUMBER(S)	CODE	DATA	#1	#2	Est (#1)	0=U	SAMP	TAKEN?
				US	US	CODE			D/R	METH-			STORAGE				1=M	0=N	0=N
				CODE	CODE					OD			TAG?				2=F	1=Y	1=Y
										-			0=N. 1=Y				l		
1	0	1 Swordfish		3	3	100	09	165	D	01	A2999	5	0	193	106		1	0	1
											Δ2318	5							
1	0	2 Blue Shark		2	2	100	06	170	р	01	M45392	4	0	201	240		2	1	1
-	<u> </u>			-	-	100				•	111-0032		•	201	240			•	•
1	0	3 Atlantic Sturgeon		1	1	001	01	180	ĸ	04	BOS873	3	0			244	0	0	1
									_										
1	0	4 Torpedo Ray		1	2	001	01	28	R	01		2		82	46		1	0	1
1	0	5 Porbeagle Shark		2	2	100	08	40	R	06		2		114			2	0	0
		6															µ		
																	I		
		7																	
																	I		
		8																	
																	I		
		9																	
		0															I		
соми		l ist identifying characteristics such a	s fin placeme	nt relativ	e to othe	er hody n	arts col	oration hea	d and ta	il shane	presence/absence of lateral	l and/or an	al scutes (stur	aeon) prese	nce of spine	es etc			
Also in	clude t	ag recenture information such as tage	ing program	nhone ni	imber e	otc	unto, 001	oration, noa	a ana ta	ii onapo		r ana/or an		goon), proce		, 0.0.			
01- S	iahtly	damaged by sharks. ID'd by bro	oad flat bill:	dorsal	fin exte	ands or	lv shor	t length al	ona bo	dv: sin	gle caudal keel: brownis	h/black d	lorsal color.						
02- R	emove	ed vellow plastic tag from base of	of dorsal fin.	Took	vertebr	ae sam	ple. ID	'd by lona	snout:	lona n	arrow pec fins: dorsal fir	n set wav	back.			MEASU	REMEN	TS:	
close	r to p	elvic fins than pec fins. Deep blu	e dorsal co	lor.					,	. 3			,			Finfish,	Squid -	cm	
03- Т	Igged	along dorsal midline; blue tag fi	rom Fish an	d Wildli	fe, PO	Box 23	, Sudbı	iry, MA 01	651; rel	eased	in good					Shellfis	h - mm		
condi	ion. L	nsure of ID, photo taken.						•			•					STAND		NGTHS:	
05- O	nly or	e measurement, not enough tim	e to fully sa	mple. I	D'd by	white p	atch or	n trailing e	dge of	1st dor	sal; caudal							#1	#2
fins e	ual s	ze; two caudal keels; thick body	dorsal colo	or dark	gray.	-		-	-							Swordfis	sh (c)	LJFL	СК
STATU	S COD	ES: PROCESSING CODES:						WEIGHT MA	ARKET	ODES:	TAG CODES:	E	STIMATION M	ETHOD COD	ES:	Billfish (	c)	LJFL	PFL
0 = Unł	nown	00 = Unknown 0	6 = Dressed (H	leaded a	nd Gutte	d)		D = Dressec	ł		0 = Unknown	0	1 = Actual, spri	ng scale		Tuna		FL	PFL
1 = Aliv	е	01 = No Processing 0	7 = Dressed (H	Headed, G	Gutted, F	inned)		R = Round			1 = Tag Applied by Observer	0	4 = Estimated b	by captain		Shark		FL	TL
2 = De	ad	02 = Chunked 0	8 = Dressed (H	Headed, G	Gutted, T	ailed)					2 = No Tag(s)	C	5 = Tally			Sturgeo	n	FL	None
3 = Dea	d, Dan	aged 03 = Filleted 0	9 = Dressed (H	Headed, C	Gutted, F	inned, Ta	ailed)				3 = Tag Already Present, Left	On 0	6 = Visually Es	timated by ob	server	Ray		TL	DW
4 = Dea	d, Hea	d only 04 = Dressed (Gutted only) 9	9 = Other								4 = Tag Already Present, Rem	noved 1	1 = Actual, ele	ctronic scale	•	Terrapin	1	TL	NL
		05 = Dressed (Finned only)									5 = Carcass Tagged (fish only	/) 9	9 = Other, desc	ribe in COMM	IENTS	Other		FL	None

			OBS/TRIPID		Α		
INDIVIDUAL ANIMAL LOG	<b>ን (FRO</b> N	IT)	DATE LANDE	D mm/yy	B /		
NMFS FISHERIES AT-SEA N	IONITOF		PAGE #		<b>C</b> of		
ASMIAL 05/01/16			HAUL #		F		
SEQ # 2 SPECIES NAMI	E	SEQ # SPECIES N	IAME	SEQ #	PECIES NAME		
3							
END STATUS 6		END STATUS		END STATUS			
ALIVE		ALIVE		ALIVE			
DEAD		DEAD		DEAD			
DEAD, DAMAGED		DEAD, DAMAGED		DEAD, DAMAGED			
DEAD, HEAD ONLY		DEAD, HEAD ONLY		DEAD, HEAD ONL	Y		
UNKNOWN (COMMENT)		UNKNOWN (COMMENT)		UNKNOWN (COM	MENT)		
DISP. CODE WEIGHT (POU	NDS)	DISP. CODE WEIGHT (F	OUNDS)	DISP. CODE V	VEIGHT (POUNDS)		
7 9							
DRESSED? EST. METHOD		DRESSED? EST. METH	IOD	DRESSED? E	ST. METHOD		
		Υ□		Υ□			
		Ν		Ν			
LENGTH (cm)		LENGTH (cm)		LENGTH (cm)			
15							
TAGS		TAGS		TAGS			
TAG #1 12	2	TAG #1		TAG #1			
TAG #1 CODE 13	3	TAG #1 CODE		TAG #1 CODE			
APPLIED BY OBSERVER		APPLIED BY OBSERVER		APPLIED BY OBS	ERVER		
NO TAG(S)		NO TAG(S)		NO TAG(S)			
TAG PRESENT, LEFT ON							
		TAG PRESENT, LEFT ON		TAG PRESENT, L	EFTON		
TAG PRESENT, REMOVED		TAG PRESENT, LEFT ON TAG PRESENT, REMOVED		TAG PRESENT, LI TAG PRESENT, R			
TAG PRESENT, REMOVED UNKNOWN (COMMENT)		TAG PRESENT, LEFT ON TAG PRESENT, REMOVED UNKNOWN (COMMENT)		TAG PRESENT, LI TAG PRESENT, R UNKNOWN (COM	EFT ON  EMOVED  MENT)		
TAG PRESENT, REMOVED UNKNOWN (COMMENT) TAG #2 12	  ?a	TAG PRESENT, LEFT ON TAG PRESENT, REMOVED UNKNOWN (COMMENT) TAG #2		TAG PRESENT, LI TAG PRESENT, R UNKNOWN (COMI TAG #2	EFTON  EMOVED		
TAG PRESENT, REMOVED UNKNOWN (COMMENT) TAG #2 TAG #2 CODE	 2a 3a	TAG PRESENT, LEFT ON TAG PRESENT, REMOVED UNKNOWN (COMMENT) TAG #2 TAG #2 CODE		TAG PRESENT, LI TAG PRESENT, R UNKNOWN (COM TAG #2 TAG #2 CODE	EFTON  EMOVED		
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				OBS/TRIPID		A99002-			
INDIVIDUAL	_ ANIMAL LOG (	(FRONT)		DATE LANDEI	D mm/yy	10/ 13			
NMFS FISHE	RIES AT-SEA MO	NITORING PROGR	AM	PAGE #		<b>_2</b> of <b>_2</b>			
ASMIAL 05/0	1/16			HAUL #		003			
SEQ #	SPECIES NAME	SEQ #	SPECIES N	AME	SEQ #	SPECIES NAME			
0 1	Torpedo Ra	y 0 2	Porbe Sha	eagle ark	03	Spiny Dogfish			
END STATUS	3	END STATU	S		END STATUS	6			
ALIVE	1				ALIVE	X			
DEAD	1	DEAD		X	DEAD				
DEAD, DAMAGE	D	DEAD, DAMAG	ED		DEAD, DAMAGE	D			
DEAD, HEAD OI	NLY	DEAD, HEAD O	NLY		DEAD, HEAD ON				
UNKNOWN (CO	MMENT)		OMMENT)		UNKNOWN (CO	MMENT)			
DISP. CODE	WEIGHT (POUNE	DS) DISP. CODE	WEIGHT (P	OUNDS)	DISP. CODE	WEIGHT (POUNDS)			
001	43	001	95	5	001	5			
DRESSED?	EST. METHOD	DRESSED?	EST. METH	OD	DRESSED?	EST. METHOD			
Υ□	01	Y 🗆		2	Υ□	01			
Νχ	UI	NX		0	NX	UI			
LENGTH (cm		LENGTH (cm	า)		LENGTH (cm	)			
	82		176			67			
TAGS		TAGS			TAGS				
TAG #1		TAG #1			TAG #1				
						RI22345			
TAG #1 COD		TAG #1 COD	 )E		TAG #1 COD	RI22345 E			
APPLIED BY OB	E	TAG #1 COE	)E BSERVER		TAG #1 COD APPLIED BY OB	RI22345 E SERVER			
APPLIED BY OE NO TAG(S)	E ISERVER	TAG #1 COE	)E BSERVER	□ <b>X</b>	TAG #1 COD APPLIED BY OB NO TAG(S)	RI22345 E SERVER			
APPLIED BY OE NO TAG(S) TAG PRESENT,	E SERVER	TAG #1 COE APPLIED BY OI NO TAG(S) TAG PRESENT	 DE BSERVER , LEFT ON	□ <b>X</b> □	TAG #1 COD APPLIED BY OB NO TAG(S) TAG PRESENT,	RI22345			
APPLIED BY OE NO TAG(S) TAG PRESENT, TAG PRESENT,	E ISERVER LEFT ON REMOVED	TAG #1 COE         APPLIED BY OF         NO TAG(S)         TAG PRESENT         TAG PRESENT	DE BSERVER , LEFT ON , REMOVED	□ ▼ □	TAG #1 COD APPLIED BY OE NO TAG(S) TAG PRESENT, TAG PRESENT,	RI22345 E SERVER LEFT ON K REMOVED			
AG #1 COD APPLIED BY OE NO TAG(S) TAG PRESENT, TAG PRESENT, UNKNOWN (CO	E SERVER LEFT ON REMOVED MMENT)	TAG #1 COE         APPLIED BY OF         NO TAG(S)         TAG PRESENT         TAG PRESENT         UNKNOWN (CC	DE BSERVER , LEFT ON , REMOVED )MMENT)	□ <b>X</b> □ □	TAG #1 COD APPLIED BY OB NO TAG(S) TAG PRESENT, TAG PRESENT, UNKNOWN (CO	RI22345 E SERVER LEFT ON X REMOVED MMENT)			
AG #1 COD APPLIED BY OE NO TAG(S) TAG PRESENT, TAG PRESENT, UNKNOWN (CO TAG #2	E ISERVER LEFT ON REMOVED MMENT)	TAG #1 COE         APPLIED BY OI         NO TAG(S)         TAG PRESENT         TAG PRESENT         UNKNOWN (CO)         TAG #2	DE BSERVER , LEFT ON , REMOVED DMMENT)	□ <b>X</b> □ □	TAG #1 COD APPLIED BY OE NO TAG(S) TAG PRESENT, TAG PRESENT, UNKNOWN (CO TAG #2	RI22345 E SERVER LEFT ON K REMOVED MMENT)			
AG #1 COD APPLIED BY OE NO TAG(S) TAG PRESENT, UNKNOWN (CO TAG #2 TAG #2 COD	E SSERVER LEFT ON REMOVED MMENT)  E	TAG #1 COE APPLIED BY OF NO TAG(S) TAG PRESENT TAG PRESENT UNKNOWN (CO TAG #2 TAG #2 COE	DE BSERVER , LEFT ON , REMOVED DMMENT)  DE	□ <b>X</b> □ □	TAG #1 COD APPLIED BY OB NO TAG(S) TAG PRESENT, TAG PRESENT, UNKNOWN (CO TAG #2	RI22345 E SERVER LEFT ON K REMOVED MMENT) E			
AG #1 COD APPLIED BY OE NO TAG(S) TAG PRESENT, TAG PRESENT, UNKNOWN (CO TAG #2 TAG #2 COD APPLIED BY OE	E ISERVER LEFT ON REMOVED MMENT)  E SERVER	TAG #1 COE APPLIED BY OI X NO TAG(S) TAG PRESENT TAG PRESENT UNKNOWN (CO TAG #2 TAG #2 COE APPLIED BY OI	DE BSERVER , LEFT ON , REMOVED DMMENT)  DE BSERVER		TAG #1 COD APPLIED BY OE NO TAG(S) TAG PRESENT, TAG PRESENT, UNKNOWN (CO TAG #2 TAG #2 COD APPLIED BY OE	RI22345 E SERVER LEFT ON K REMOVED MMENT) E SERVER			
AG #1 COD APPLIED BY OE NO TAG(S) TAG PRESENT, TAG PRESENT, UNKNOWN (CO TAG #2 TAG #2 TAG #2 COD APPLIED BY OE NO TAG(S)	E SSERVER LEFT ON REMOVED MMENT)  E SERVER	TAG #1 COE APPLIED BY OF NO TAG(S) TAG PRESENT UNKNOWN (CC TAG #2 TAG #2 TAG #2 COE APPLIED BY OF X NO TAG(S)	DE BSERVER , LEFT ON , REMOVED DMMENT)  DE BSERVER	□ ▼ □ □ □ ×	TAG #1 COD APPLIED BY OB NO TAG(S) TAG PRESENT, TAG PRESENT, UNKNOWN (CO TAG #2 TAG #2 TAG #2 COD APPLIED BY OB NO TAG(S)	RI22345 E SERVER LEFT ON K REMOVED MMENT)  E SERVER K K			
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AG #1 COD APPLIED BY OE NO TAG(S) TAG PRESENT, TAG PRESENT, UNKNOWN (CO TAG #2 TAG #2 COD APPLIED BY OE NO TAG(S) TAG PRESENT, UNKNOWN (CO	E SSERVER LEFT ON REMOVED MMENT) E SSERVER LEFT ON REMOVED MMENT)	TAG #1 COE         APPLIED BY O.         NO TAG(S)         TAG PRESENT         HAG PRESENT         UNKNOWN (CC         TAG #2         TAG #2 COE         APPLIED BY OI         NO TAG(S)         TAG #2 COE         TAG #2 COE         TAG #2 COE         TAG PRESENT         UNKNOWN (CC         TAG PRESENT         UNKNOWN (CC	 DE BSERVER , LEFT ON , REMOVED DMMENT)  DE BSERVER , LEFT ON , REMOVED DMMENT)		TAG #1 COD APPLIED BY OB NO TAG(S) TAG PRESENT, TAG PRESENT, UNKNOWN (CO TAG #2 TAG #2 COD APPLIED BY OB NO TAG(S) TAG PRESENT, TAG PRESENT, UNKNOWN (CO	RI22345 E SERVER LEFT ON K SERVER E SERVER K LEFT ON REMOVED MMENT)			

01: ID characteristics = round disk, dark grey dorsal, white ventral, relatively small mouth

02: ID characteristics = white patch on trailing edge of 1st dorsal, caudal fins equal in size, 2 caudal keels, thick bodied, dorsal color dark grey

03: tag located on dorsal fin, long yellow tube, "Dogfish Group, PO Box 123, Providence, RI"

		OBS/TRIPID				
INDIVIDUAL ANIMAL LOG (BACK	<b>()</b>	DATE LANDE	D mm/yy	1		
NMFS FISHERIES AT-SEA MONITOR	ING PROGRAM	PAGE #		of		
ASMIAL 05/01/16		HAUL #				
SEQ # SPECIES NAME	SEQ # SPECIES N	AME	SEQ #	SPECIES NAME		
END STATUS	END STATUS		END STATUS	6		
ALIVE	ALIVE		ALIVE			
DEAD 🗌	DEAD		DEAD			
DEAD, DAMAGED	DEAD, DAMAGED		DEAD, DAMAGE	D 🗌		
DEAD, HEAD ONLY	DEAD, HEAD ONLY		DEAD, HEAD O			
	UNKNOWN (COMMENT)		UNKNOWN (CO	MMENT)		
DISP. CODE WEIGHT (POUNDS)	DISP. CODE WEIGHT (P	OUNDS)	DISP. CODE	WEIGHT (POUNDS)		
DRESSED? EST. METHOD	DRESSED? EST. METH	OD	DRESSED?	EST. METHOD		
	Ϋ́ L		Y L			
				\ \		
				)		
TAGS	TAGS		TAGS			
TAG #1	TAG #1		TAG #1			
TAG #1 CODE	TAG #1 CODE		TAG #1 COD	E		
APPLIED BY OBSERVER	APPLIED BY OBSERVER		APPLIED BY OB	SERVER		
NO TAG(S)	NO TAG(S)		NO TAG(S)			
TAG PRESENT, LEFT ON	TAG PRESENT, LEFT ON		TAG PRESENT,	LEFT ON		
TAG PRESENT, REMOVED	TAG PRESENT, REMOVED		TAG PRESENT,	REMOVED		
	UNKNOWN (COMMENT)		UNKNOWN (CO	MMENT)		
TAG #2	TAG #2		TAG #2			
TAG #2 CODE	TAG #2 CODE		TAG #2 COD	E		
APPLIED BY OBSERVER	APPLIED BY OBSERVER		APPLIED BY OB	SERVER		
NO TAG(S)	NO TAG(S)		NO TAG(S)			
TAG PRESENT, LEFT ON	TAG PRESENT, LEFT ON		TAG PRESENT,	LEFT ON		
TAG PRESENT, REMOVED	TAG PRESENT, REMOVED		TAG PRESENT,	REMOVED		
	UNKNOWN (COMMENT)		UNKNOWN (CO	MMENT)		
COMMENTS			FOR OFFICE US	SE ONLY		

# **Length Frequency Log**

Complete this log on a per haul basis for the biological sampling of certain species. Length frequencies and shell height frequencies should be collected in the priority order listed in the <u>2016 NEFSC Observer On Deck Reference Guide</u>.

Lengths and heights, and any corresponding age structures must be collected from the same trip, haul, and fish disposition. Sometimes, samples must also be separated by sex (NEFOP and IFS). While one log may be used for multiple species, if fish dispositions or sexes sampled from one haul differ, then separate columns on the log must be used for each of these catch segments. Samples from mixed segments of the catch are not usable.

Sea scallop and clam/quahog heights are recorded in the right-hand section of this log. Pelagic species sampling is recorded on the <u>Individual Animal Log</u>, unless otherwise instructed. Crustacean sampling (e.g., lobster and crab sampling) is recorded on the <u>Crustacean Sample Log</u>.

#### Comments

Record information regarding fish, scallops, clams, or quahogs sampled on this haul. If more room is needed, use the back of this log, making sure to write "See Back" on the front of the log. Reference each comment with its corresponding field name. If a complete sample cannot be obtained, record the reason(s) in this section.

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
1*	Species Name	See Appendix T – Species Codes.	N/A	Cannot be unknown.
2	Species Code	Filled in by FSB staff for data entry. Observers: leave blank.	4-digit code	Cannot be unknown.
3*	Fish Disposition Code	Obtain reason from captain. See Appendix M – Fish Disposition Codes.	3-digit code	"900" and comment.
4	Sex Code	Male/Female/Unknown.	1-digit code	"0".
5*	Sample Weight	Actual weight. Finfish and squid: round weight. Shellfish: dressed (meat) weight.	Pounds, to the nearest tenth	Dash.
6	Age Sample Type Code	Must match age structure(s) submitted.	2-digit code	Cannot be unknown.
7	Number of Samples	One pair of otoliths or one envelope of scales is one age structure sample.	Whole number	Cannot be unknown. Dash if none collected.
8*	Lengths	See <u>On Deck Reference Guide</u> for measurement instructions by species. Record lengths consecutively from shortest to longest.	Finfish and squid: whole centimeters Shellfish: whole millimeters	Cannot be unknown.
9*	Numbers at Length	Record the <i>total</i> number of animals measured at each centimeter or millimeter. Do not stroke tally in this field.	Whole number	Cannot be unknown.
10	Volumetric Measure of Scallop Meats	See <u>On Deck Reference Guide</u> .	Milliliters, to the nearest 50	Dash.
11	Number at Height	Record the <i>total</i> number of sea scallops, clams, or quahogs measured at each height interval. Do not stroke tally in this field.	Whole number	Cannot be unknown.
12	Shellfish Round Weight	Actual weight of scallops, clams, or quahogs in the shell.	Pounds	Dash. Leave blank for other species.

										OBS/TR	RIP ID	A	
LENGTH FREQUENC	Y LOG									DATE L	ANDED mm/yy	<b>B</b> /	1
NMFS FISHERIES OF	BSERVER	PROGRA	М							PAGE #		C OF	F 🗌
OBLNH OBLND 0	5/01/16									HAUL #		F	
SPECIES NAME		1											
SPECIES CODE		2											
FISH DISPOSITION CODE		3											
SEX CODE		4											
SAMPLE WEIGHT (R/A)		5									SAMPLE W	EIGHT (D/A)	
AGE SAMPLE TYPE CODE		6					_				VOLUMETR	IC MEASURE OF M	IEATS 10
# SAMPLES	<u> </u>	7								<u> </u>		near	est 50 ml
MEASUREMENTS:	<b>8</b> 0 <b>9</b>	0	0	0	0	0	0	0	0	0	10 - 14	<b>11</b> 110 - 114	4
Finfish, Squid - cm	1	1	1	1	1	1	1	1	1	1	15 - 19	115 - 119	9
Shellfish - mm	2	2	2	2	2	2	2	2	2	2	20 - 24	120 - 124	4
	3	3	3	3	3	3	3	3	3	3	25 - 29	125 - 129	9
SEX CODES:	4	4	4	4	4	4	4	4	4	4	30 - 34	130 - 134	4
0=Unknown	5	5	5	5	5	5	5	5	5	5	35 - 39	135 - 139	9
1=Male	6	6	6	6	6	6	6	6	6	6	40 - 44	140 - 144	4
2=Female	7	7	7	7	7	7	7	7	7	7	45 - 49	145 - 14	9
AGE SAMPLE TYPE CODES:	8	8	8	8	8	8	8	8	8	8	50 - 54	150 - 154	4
00=None	9	9	9	9	9	9	9	9	9	9	55 - 59	155 - 159	9
01=Scales	0	0	0	0	0	0	0	0	0	0	60 - 64	160 - 164	4
02=Otoliths	1	1	1	1	1	1	1	1	1	1	65 - 69	165 - 169	9
03=Shells	2	2	2	2	2	2	2	2	2	2	70 - 74	170 - 174	4
04=Whole	3	3	3	3	3	3	3	3	3	3	75 - 79	175 - 179	9
05=Vertebra	4	4	4	4	4	4	4	4	4	4	80 - 84	180 - 184	4
06=Dorsal Spines	5	5	5	5	5	5	5	5	5	5	85 - 89	185 - 18	9
07=Scales & Otoliths	6	6	6	6	6	6	6	6	6	6	90 - 94	190 - 194	4
08=Head	7	7	7	7	7	7	7	7	7	7	95 - 99	195 - 19	9
09=Illicium	8	8	8	8	8	8	8	8	8	8	100 - 104	200 - 204	4
99=Other (comment)	9	9	9	9	9	9	9	9	9	9	105 - 109	205 - 209	9
COMMENTS													

Round weight = ____ lbs 12

																			OBS/	/TRIP ID			A99010	)-
LENGTH FREQUENC	CY LO	G																	DATE	E LANDED	mm/yy	06	/	16
NMFS FISHERIES OF	BSER	VER	PROG	RAM	1														PAG	E #			3 OF	3
OBLNH OBLND 0	)5/01/ ⁻	16																	HAUI	L#			005	]
SPECIES NAME		Atlan	tic Cod			Had	ddock			Spiny	Dogfis	h		Spiny	/ Dogfish		Spiny Dogfish			Scallop, Sea				
SPECIES CODE																								
FISH DISPOSITION CODE		1	00				100			1	00 -				<b>→</b>			10	)	_		10	0	
SEX CODE			0				0				2 –				<b>→</b>			1		_				
SAMPLE WEIGHT (R/A)	61			29			5	03				<u> </u>			18.	5	SAM	PLE WEI	IGHT (D/A	.)	7.2			
AGE SAMPLE TYPE CODE		(	02				02			(	00							00		VOL	JMETRIC		RE OF MEA	<b>ATS</b>
# SAMPLES	-		6	1		1	5	1				1	1								2	2650	nearest	<u>150 ml</u>
MEASUREMENTS:	<b>6</b> 0		<b>8</b> 0	)	<b>6</b> 0	1	0		<b>6</b> 0		<b>8</b> (	2	10 (	) 1	0	7	0		0	10 - 1	14		110 - 114	
Finfish, Squid - cm	1		1		1		1		1		1	1	1	1	1		1	2	1	15 - 1	19		115 - 119	
Shellfish - mm	2		2	2	2		2		2		2	4	2	2	2		2	3	2	20 - 2	24		120 - 124	
	3		3	1	3	1	3		3		3	9	3	3	3		3	1	3	25 - 2	29		125 - 129	
SEX CODES:	4		4	Ļ	4	2	4		4		4	9	4	1	4		4		4	30 - 3	34		130 - 134	
0=Unknown	5		5	5	5	1	5		5		5	4	5	5	5		5		5	35 - 3	39		135 - 139	-
1=Male	6	3	6	6	6		6		6		6	7	6	6	6		6		6	40 - 4	14		140 - 144	
2=Female	7		7	,	7		7		7		7	8	7	7	7		7		7	45 - 4	49		145 - 149	
AGE SAMPLE TYPE CODES:	8	2	8	3	8		8		8	1	8	6	ε	3	8		8		8	50 - 5	54		150 - 154	
00=None	9		g	)	9		9		9	1	g	6	ę	9	9		9		9	55 - 5	59		155 - 159	
01=Scales	<b>7</b> 0	1	0	)	0		0		<b>7</b> 0	2	<b>9</b> 0	5	0	D	0		0		0	60 - 6	34		160 - 164	
02=Otoliths	1	1	1		1		1		1	1	1	4	1	1	1		1		1	65 - 6	69		165 - 169	
03=Shells	2	1	2		2		2		2		2		2	2	2		2		2	70 - 1	74		170 - 174	
04=Whole	3		3	3	3		3		3		3		3	3	3		3		3	75 - 7	79		175 - 179	
05=Vertebra	4		4	Ļ	4		4		4		4	1	4	1	4		4		4	80 - 8	34		180 - 184	
06=Dorsal Spines	5		5	5	5		5		5		5	1	Ę	5	5		5		5	85 - 8	39		185 - 189	
07=Scales & Otoliths	6		6	6	6	i	6		6		6		e	6	6		6		6	90 - 9	94		190 - 194	
08=Head	7		7	,	7		7		7		7	3	7	7	7		7		7	95 - 9	99		195 - 199	
09=Illicium	8		8	3	8		8		8	3	8		8	3	8		8		8	100 -	104		200 - 204	
99=Other (comment)	9		9	)	9		9		9	2	g		9	9	9		9		9	105 -	109		205 - 209	

COMMENTS

Round weight = ___68_ lbs

All kept catch from the last haul weighed (actual, round) and measured. Did not have time to get otoliths from all cod.

# LENGTH FREQUENCY LOG (FRONT) NMFS FISHERIES AT-SEA MONITORING PROGRAM

LENGTH F	REQUE	NCY LOG (	FRONT)	OBS/	TRIPID	Α	Α			
NMFS FIS	HERIES	AT-SEA MO	ONITORIN	g progi	RAM	DATE	E LANDED mm/y	у В	1	
ASMLNH /	ASMLND	05/01/16				PAG	Ξ#	C	of	
						HAUL	_ #	F		
SPECIES NAM	ſΕ	SPECIES N	AME	SPECIES N	NAME	SPECIES NA	AME	SPECIES NAI	ΛE	
1										
FISH DISP. CO	DDE	FISH DISP.	CODE	FISH DISP	. CODE	FISH DISP. (	CODE	FISH DISP. CODE		
3										
SAMPLE WEIC	GHT (R/A)	SAMPLE W	EIGHT (R/A)	SAMPLE V	/EIGHT (R/A)	SAMPLE WE	EIGHT (R/A)	SAMPLE WEI	GHT (R/A)	
5										
<b>8</b> 0 <b>9</b>	0	0	0	0	0	0	0	0	0	
1	1	1	1	1	1	1	1	1	1	
2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	
4 5	4	4	4	4	5	4	5	4 5	4 5	
6	6	6	6	6	6	6	6	6	6	
7	7	7	7	7	7	7	7	7	7	
8	8	8	8	8	8	8	8	8	8	
9	9	9	9	9	9	9	9	9	9	
0	0	0	0	0	0	0	0	0	0	
1	1	1	1	1	1	1	1	1	1	
2	2	2	2	2	2	2	2	2	2	
3	3	3	3	3	3	3	3	3	3	
4	4	4	4	4	4	4	4	4	4	
5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	
7	7	7	7	7	7	7	7	7	7	
8	8	8	8	8	8	8	8	8	8	
9	9	9	9	9	9	9	9	9	9	
0	0	0	0	0	0	0	0	0	0	
1	1	1	1	1	1	1	1	1	1	
2	2	2	2	2	2	2	2	2	2	
		3		3		3		3	3	
5	5	5	5	5	5	5	5	5	5	
6	6	6	6	6	6	6	6	6	6	
7	7	7	7	7	7	7	7	7	7	
8	8	8	8	8	8	8	8	8	8	
9	9	9	9	9	9	9	9	9	9	
COMMEN	TS .							<u> </u>		

#### LE NM ASI

ECIES NAM	0 / 16 of _3 003 ME er Fld.		
ECIES NAM	of _ <u>3_</u> 003 ME er Fld.		
ECIES NAM Winte	003 ^{ME} er Fld.		
ECIES NAM Winte H DISP. CO	^{ME} er Fld.		
Winto	er Fld.		
SH DISP. CO	Winter Fld.		
FISH DISP. CODE			
0	12		
MPLE WEI	GHT (R/A)		
5.3			
20	0		
1	1		
2	2		
3	3		
4	4		
5 1	5		
<u>6</u> 3	6		
7 4	7		
8 6	8		
9 4	9		
<b>3</b> 0 <b>3</b>	0		
1	1		
2	2		
3	3		
4	4		
5	5		
6	6		
7	7		
8	8		
9	9		
0	0		
1	1		
2	2		
3	3		
4	4		
5	5		
6	6		
7	7		
8	8		
9	9		
	5         1         2         3         4         5         6         3         7         4         5         9         4         5         6         7         4         5         6         7         8         9         0         1         2         3         4         5         6         7         8         9         0         1         2         3         4         5         6         7         8         9         9		

# LENGTH FREQUENCY LOG (BACK) NMFS FISHERIES AT-SEA MONITORING PROGRAM

LENGTH F	REQU	ENCY LOG (	BACK)			ASM	/TRIPID				
NMFS FIS	HERIES	S AT-SEA MO	<b>NITORIN</b>	G PROG	RAM	DATI	E LANDED mm/y	у	/		
ASMLNH A	ASMLN	05/01/16				PAG	E #		of		
						HAU	L#				
SPECIES NAM	1E	SPECIES N	AME	SPECIES	NAME	SPECIES N	AME	SPECIES	NAME		
FISH DISP. CC	DDE	FISH DISP.	CODE	FISH DISF	P. CODE	FISH DISP.	CODE	FISH DISP. CODE			
SAMPLE WEIG	3HT (R/A)	SAMPLE W	EIGHT (R/A)	SAMPLE	WEIGHT (R/A)	SAMPLE WI	EIGHT (R/A)	SAMPLE	WEIGHT (R/A)		
0	0	0	0	0	0	0	0	0	0		
1	1	1	1	1	1	1	1	1	1		
2	2	2	2	2	2	2	2	2	2		
3	3	3	3	3	3	3	3	3	3		
4	4	4	4	4	4	4	4	4	4		
5	5	5	5	5	5	5	5	5	5		
6	6	6	6	6	6	6	6	6	6		
7	7	7	7	7	7	7	7	7	7		
8	8	8	8	8	8	8	8	8	8		
9	9	9	9	9	9	9	9	9	9		
0	0	0	0	0	0	0	0	0	0		
1	1	1	1	1	1	1	1	1	1		
2	2	2	2	2	2	2	2	2	2		
3	3	3	3	3	3	3	3	3	3		
4	4	4	4	4	4	4	4	4	4		
5	5	5	5	5	5	5	5	5	5		
6	6	6	6	6	6	6	6	6	6		
7	7	7	7	7	7	7	7	7	7		
8	8	8	8	8	8	8	8	8	8		
9	9	9	9	9	9	9	9	9	9		
0	0	0	0	0	0	0	0	0	0		
1	1	1	1	1	1	1	1	1	1		
2	2	2	2	2	2	2	2	2	2		
3	3	3	3	3	3	3	3	3	3		
4	4	4 <i>E</i>	4	4	4	4 E	4 E	4 E	4		
5	5	5	5	5	5	C C	5	C C	5		
0	0	6	0	0	0	0	0	0 7	6		
/	/	7	/	/	/	1	/	/	/		
8	8	8	8	8	8	8	8	8	8		
	9 S	9	9	9	9	9 Top official	9	9	9		
	0						E USE UNLY				

# **Catch Composition Log**

The <u>Catch Composition Log</u> is designed to categorize the catch on vessels that are catching extremely large quantities of fish, in the tens or hundreds of thousands of pounds on a single haul. Due to the size of catches, it is necessary to obtain subsamples from all portions of a haul in order to properly quantify the amount of fish caught. However, the method in which subsamples are collected and extrapolated is different than other estimation methods.

Record details related to the pumping process, observing of catch, and any discards on the Discard Log.

On this log, only record the species in the basket subsamples (catch going directly into the fish hold. Do not use this log to document any other catch observed in the net or picked out at a grate; those weights should go on the <u>Haul Log</u> with the appropriate estimation method code. Any large animals that did not pass through the pump should be recorded on the <u>Marine Mammal, Sea Turtle, and Seabird Incidental Take Log</u> or <u>Individual Animal Log</u>.

#### Comments

Record information regarding this sample or your sampling methods. Reference each comment with its corresponding field name or basket number. If a complete sample cannot be obtained, record the reason(s) in this section.

Record all times the pumping stops, and the reason for stoppage.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Estimated Pumping Time	Obtain from captain.	Whole	Dash.
		If catch is not pumped onboard,	Minutes	
		record a dash in this field.		
2	Basket Number	Sequential for each basket sample in	Whole number	Cannot be unknown.
		order of time taken.		
3	Time	Time basket sample is taken.	HH:MM (24hr)	Dash.
4	Species Name	See Appendix T – Species Codes.	N/A	Cannot be unknown.
5	Species Code	Filled in by FSB staff for data entry.	4-digit code	Cannot be unknown.
		Observers: leave blank.		
6	Pounds	Round actual weight.	Pounds, to the	Cannot be unknown.
			nearest tenth	
7	Basket Subtotal Weight	Total weight of catch in subsample	Pounds, to the	Cannot be unknown.
		basket.	nearest tenth	
8	Total Weight of Pumped	Obtain from captain.	Whole pounds	Cannot be unknown.
	Catch			
9	Species Name	Listing of all species encountered in	N/A	Cannot be unknown.
		any basket sample.		
10	Species Weight	Calculated by summing weight of this	Pounds, to the	Cannot be unknown.
		species across all sample baskets.	nearest tenth	
11	Total Basket Weight	Calculated by summing weight of all	Pounds, to the	Cannot be unknown.
		species in all sample baskets.	nearest tenth	
12	Catch Composition as a	Calculated by dividing each species	Proportion,	Cannot be unknown.
	Proportion of Total	weight by the total basket weight.	rounded to 4	
	Basket Weight	The summed proportions should	decimal places	
		equal 1.		
13	Extrapolated Weight	Calculated by multiplying each	Whole pounds	Cannot be unknown.
		proportion by the total weight of		
		pumped catch.		
		Must have a corresponding entry on		
		the <u>Haul Log</u> with estimation method		
		code "10" .		

CH COMPOSITION L		RAM				OBS/T DATE PAGE	TRIP ID LANDED mm/yy	A B / C OF
MP 05/01/16						HAUL	.#	F
ESTIMATED PUMPING TIM	1 <u>E 1</u>	minutes						
BASKET # 2	TIME	3 :	BASKET #	TIME	:	BASKET #	TIME	:
SPECIES	CODE	POUNDS (R/A)	SPECIES	CODE	POUNDS (R/A)	SPECIES	CODE	POUNDS (R/A)
4	5	6			. <u> </u>			. <u> </u>
		. <u> </u>	_		·	_		·
		. <u> </u>	╡		. <u> </u>	_		. <u> </u>
		. <u> </u>	_			_		. <u> </u>
		. <u> </u>	_		. <u> </u>	_		. <u> </u>
SUBTOTAL		7	SUBTOTAL		. <u> </u>	SUBTOTAL		· ·
BASKET #	TIME	:	BASKET #	TIME	:	BASKET #	TIME	:
SPECIES	CODE	POUNDS (R/A)	SPECIES	CODE	POUNDS (R/A)	SPECIES	CODE	POUNDS (R/A)
		·	╡		·	╡		. <u> </u>
		. <u> </u>	_		. <u> </u>	_		·
		. <u> </u>	╡		. <u> </u>	╡		. <u> </u>
		. <u> </u>	╡		. <u> </u>			
		. <u> </u>	_		·	╡		·
SUBTOTAL			SUBTOTAL			SUBTOTAL		

COMMENTS

							OBS/TRIP ID DATE LANDED PAGE #	mm/yy	A B / C OF
							HAUL #		F
BASKET # 2	TIME	3 :	BASKET #	TIME	:	BASKET #			:
SPECIES	CODE	POUNDS (R/A)	SPECIES	CODE PC	UNDS (R/A)	SPECIES		CODE	POUNDS (R/A)
4	5	6.							
		·			. <u> </u>				·
		. <u> </u>							. <u> </u>
		·			·				·
SUBTOTAL		7.	SUBTOTAL			SUBTOTAL			
			9	(a) <b>10</b>	(c) 0 .	12	13		
		. <u> </u>	9	(a) <b>10</b>	(c) 0 .		13	_	
		. <u> </u>		(a)	(c) 0 .			_	
				(a)	(c) 0 .				
		. <u> </u>		(a)	(c) 0 .				
				(a)	(c) 0 .				
SUBTOTAL				(a)	(c) 0 .				
				(a)	(c) 0			1	
d) TOTAL WEIGHT OF PUMPED CATCH				(a)	(c) 0 .				
(Captain's Estimate)	8	lbs							

						OBS/TRIP IE	)	A99011-
CH COMPOSITION LC	)G					DATE LAND	ED mm/yy	11 /
<b>5 FISHERIES OBSER</b>	VER PROG	RAM				PAGE #		2 OF 4
MP 05/01/16						HAUL #		0 0 3
ESTIMATED PUMPING TIME	45	minutes						
BASKET #	TIME _	22 : 30	BASKET #	TIME	22 : 34	BASKET # <u>3</u>	TIME	22 : 38
SPECIES	CODE	POUNDS (R/A)	SPECIES	CODE	POUNDS (R/A)	SPECIES	CODE	POUNDS (R/A)
Atlantic Herring		63 . <u>7</u>	Atlantic Herring		65 . <u>9</u>	Atlantic Herring		69 . <u>3</u>
Atlantic Mackerel		02				Atlantic Mackerel		8 . <u>1</u>
		. <u> </u>			. <u> </u>	Blueback Herring		2.4
		. <u> </u>						
					·			
SUBTOTAL		63 . <u>9</u>	SUBTOTAL		65 . <u>9</u>	SUBTOTAL		79 . <u>8</u>
BASKET #	TIME _	22 : 42	BASKET #5	TIME	22 : 46	BASKET # <u>6</u>	TIME	22 : 50
SPECIES	CODE	POUNDS (R/A)	SPECIES	CODE	POUNDS (R/A)	SPECIES	CODE	POUNDS (R/A)
Atlantic Herring		74 . <u>3</u>	Atlantic Herring		62 . <u>8</u>	Atlantic Herring		<u>68 . 6</u>
Blueback Herring		1 . <u>5</u>	Atlantic Mackerel		9. <u>4</u>			
		. <u> </u>			. <u> </u>			<u> </u>
		. <u> </u>			. <u> </u>			. <u> </u>
								. <u> </u>
SUBTOTAL		75 . <u>9</u>	SUBTOTAL		72 . <u>2</u>	SUBTOTAL		68 . <u>6</u>

COMMENTS

							OBS/TRIP ID		A99011-
							DATE LANDED	mm/yy	11 / 1
							PAGE #		3 OF 4
							HAUL #		0 0 3
BASKET # 7	TIME	22 : 54	BASKET # 8	TIME <b>22</b> :	58	BASKET #	9		23 : 02
SPECIES	CODE	POUNDS (R/A)	SPECIES	CODE POUN	DS (R/A)	SPECIES		CODE	POUNDS (R/A)
Atlantic Herring		61 . <u>4</u>	Atlantic Herring	6	1. <u>3</u>	Atlant	tic Herring		69 . <u>3</u>
Blueback Herring		<u> 4 . 9</u>	Atlantic Mackerel		6. <u>5</u>	Silver	Hake		<u> </u>
Silver Hake		0. <u>1</u>							. <u> </u>
		. <u> </u>							. <u> </u>
					. <u> </u>				. <u> </u>
SUBTOTAL		66 . 4	SUBTOTAL	6	7.4	SUBTOTA	L		72 . 8
3ASKET #10	TIME	23 : 06			PROPOR			]	
BASKET #		23 : 06	SPECIES		PROPOR		EXTRAPOLATED		
BASKET # <u>10</u> SPECIES		23 : 06	SPECIES	POUNDS (R/A)	PROPOR BASKE	RTION OF TOTAL	EXTRAPOLATED WEIGHT (lbs) (c x d)		
BASKET # <u>10</u> SPECIES  Atlantic Herring		23 : 06 POUNDS (R/A) 67 . 6	SPECIES Atlantic Herring	POUNDS (R/A) (a) 664 <u>. 2</u>	PROPOR BASKE	RTION OF TOTAL T WEIGHT (a/b) 9 4 7 8	EXTRAPOLATED WEIGHT (lbs) (c x d) 189,555		
BASKET # <u>10</u> BPECIES  Atlantic Herring	TIME	23 : 06 POUNDS (R/A) 67 . <u>6</u> 	SPECIES Atlantic Herring Atlantic Mackerel	POUNDS (R/A) (a) 664 <u>2</u> (a) 24 <u>2</u>	PROPOR BASKE (c) 0 .	RTION OF TOTAL T WEIGHT (a/b) 9 4 7 8 0 3 4 5	EXTRAPOLATED WEIGHT (lbs) (c x d) 189,555 6,906		
ASKET # <u>10</u> PECIES Atlantic Herring		23 : 06 POUNDS (R/A) 67 	SPECIES Atlantic Herring Atlantic Mackerel Blueback Herring	POUNDS (R/A) (a) 664 <u>2</u> (a) 24 <u>2</u> (a) 8 <u>8</u>	PROPOR BASKE (c) 0 . (c) 0 .	RTION OF TOTAL         T WEIGHT (a/b)         9       4       7       8         0       3       4       5         0       1       2       6	EXTRAPOLATED WEIGHT (lbs) (c x d) 189,555 6,906 2,511		
ASKET # <u>10</u> PECIES  Atlantic Herring	TIME	23 : 06 POUNDS (R/A) 676 	SPECIES Atlantic Herring Atlantic Mackerel Blueback Herring Silver Hake	POUNDS (R/A) (a) 664 <u>2</u> (a) 24 <u>2</u> (a) 8 <u>8</u> (a) 3 <u>6</u>	PROPOR           BASKE           (c)         0           (c)         0           (c)         0           (c)         0           (c)         0	RTION OF TOTAL         T WEIGHT (a/b)         9       4       7       8         0       3       4       5         0       1       2       6         0       0       5       1	EXTRAPOLATED WEIGHT (lbs) (c x d) 189,555 6,906 2,511 1027		
BASKET # BASKET # BPECIES Atlantic Herring		_23 : 06 POUNDS (R/A) 676 	SPECIES Atlantic Herring Atlantic Mackerel Blueback Herring Silver Hake	POUNDS (R/A)         (a)       664 . 2         (a)       24 . 2         (a)       8 . 8         (a)       3 . 6         (a)       .	PROPOR           (c)         0	TION OF TOTAL         T WEIGHT (a/b)         9       4       7       8         0       3       4       5         0       1       2       6         0       0       5       1	EXTRAPOLATED WEIGHT (lbs) (c x d) 189,555 6,906 2,511 1027		
BASKET # BASKET # SPECIES Atlantic Herring		23 : 06 POUNDS (R/A) 67 . <u>6</u>    67 . <u>6</u>	SPECIES Atlantic Herring Atlantic Mackerel Blueback Herring Silver Hake	POUNDS (R/A)         (a)       664 . 2         (a)       24 . 2         (a)       8 . 8         (a)       3 . 6         (a)          (a)	PROPOR           BASKE           (c)         0	8       O       F       O       T       A       B         0       3       4       5       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S       S	EXTRAPOLATED WEIGHT (lbs) (c x d) 189,555 6,906 2,511 1027		
BASKET # BASKET # SPECIES Atlantic Herring		23 : 06 POUNDS (R/A) 676    676 676	SPECIES Atlantic Herring Atlantic Mackerel Blueback Herring Silver Hake	POUNDS (R/A)         (a)       664 . 2         (a)       24 . 2         (a)       8 . 8         (a)       3 . 6         (a)       .	PROPOR           (c)         0	8       0       0       7       8         0       3       4       5         0       1       2       6         0       0       5       1	EXTRAPOLATED WEIGHT (lbs) (c x d) 189,555 6,906 2,511 1027		
BASKET # BASKET # BPECIES Atlantic Herring SUBTOTAL BUBTOTAL d) TOTAL WEIGHT OF PUMPED CATCH		23 : 06 POUNDS (R/A) 676   676 676	SPECIES Atlantic Herring Atlantic Mackerel Blueback Herring Silver Hake	POUNDS (R/A)         (a)       664 . 2         (a)       24 . 2         (a)       8 . 8         (a)       3 . 6         (a)       .         (a)       .	PROPOR           (c)         0           (c)         0	P       4       7       8         0       3       4       5         0       1       2       6         0       0       5       1	EXTRAPOLATED WEIGHT (lbs) (c x d) 189,555 6,906 2,511 1027		

# **Catch Estimation Worksheet**

This worksheet contains detailed information about obtaining and recording catch weight information for sea life and/or debris taken by a fishing vessel. Use this worksheet to organize and illustrate catch estimation methodology and work. Complete this worksheet for *every* haul. This worksheet is used for all programs.

If the Tally or Basket/Tote Count methods are used, complete fields 3-11. If the Volume-to-Volume method is used, complete fields 12-16. If another subsampling method is used, complete fields 16-19. If the Cumulative Sum method is used, complete fields 20-26. If a method is not used, the corresponding fields should be left blank.

Two orientations of the <u>Catch Estimation Worksheet</u> exist. One is for scallop dredge and scallop trawl trips, for which deckloading is more likely. The other is for all other gear types.

If there are insufficient lines on one form for all species subsampled in this haul, continue listing species on an additional <u>Catch Estimation Worksheet</u>, making sure to complete all of the Header Information (*A*, *B*, and *F*).

#### Comments

Record any detailed additional information associated with this log (e.g., description of irregular shapes or other shapes, other catch estimation methods, safety concerns, or time constraints).

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
1	Sorting Method	Indicate how the crew is sorting. Describe "Other" on line 1A.	Check all that apply	Cannot be unknown.
2	Marel Scale Calibration Weight	Collected from Marel Scale. Leave blank if not using a Marel Scale.	Pounds, to the nearest hundredth	Blank.
3	Species	See Appendix T – Species Codes.	N/A	Cannot be unknown.
4	Fish Disposition	Obtain reason from captain. See Appendix M – Fish Disposition Codes.	3-digit code	"900" and comment.
5	Unit Type	Container used or individual if tally. Describe "Other" in comments.	1-letter code	Cannot be unknown.
6	List Individual Sample Weights	Weighed by observer. Dash and comment if not weighed individually.	Pounds, to the nearest tenth	Cannot be unknown.
7	Total Sample Weight	Sum of the individual sample weights.	Pounds, to the nearest tenth	Cannot be unknown.
8	Number of Sample Units	Count of the individual sample weights.	Whole number	Cannot be unknown.
9	Average Weight Per Unit	Calculate. Total Sample Weight / Number of Sample Units.	Pounds, to the nearest tenth	Cannot be unknown.
10	Total Number of Units	Count.	Whole number	Cannot be unknown.
11	Total Estimated Weight	Calculate. Average Weight Per Unit x Total Number of Units.	Whole pounds	Cannot be unknown.
12	Catch Shape, Measurements & Volume	Measure checker pen dimensions. Draw and label all dimensions in comments.	Feet, to the nearest tenth	Cannot be unknown.

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
12A	Remainder Pile Volume	Calculate. Remainder from before this haul was dumped.	Cubic feet, to the nearest hundredth	Cannot be unknown.
12B	Total Pile Volume	Calculate. Total pile from multiple hauls.	Cubic feet, to the nearest hundredth	Cannot be unknown.
13	Depths	Measure. Include a single depth of 0.0ft if the catch pile is not in a checker pen or slopes to zero.	Feet, to the nearest tenth	Cannot be unknown.
14	Total Haul Volume	Calculate. Use formulas on worksheet. For deckloading: total minus remainder.	Cubic feet, to the nearest hundredth	Cannot be unknown.
15	Total Subsample Volume	Calculate. Use formulas on worksheet.	Cubic feet, to the nearest hundredth	Cannot be unknown.
16	Sample Weight Multiplier	Calculate. Total divided by subsample. Used with both Volume-to-Volume calculations and Other Subsample Types. Copy to front of <u>Haul Log</u> .	Unitless, to the nearest hundredth	Cannot be unknown.
17	Unit Type	Must be the same for both total and subsample.	Check one	Cannot be unknown.
18	Total Number of Units	Weight: sum. Other units: count.	Weight: Pounds, to the nearest tenth Other: whole number	Cannot be unknown.
19	Number of Sample Units	Weight: sum. Other units: count.	Weight: Pounds, to the nearest tenth Other: whole number	Cannot be unknown.
20	Entire Deck Loading Haul Range	Range of hauls where deck loading occurred.	Haul numbers	Cannot be unknown.
21	Number of Hauls	Count.	Whole number	Cannot be unknown.
22	Species	See Appendix T – Species Codes.	N/A	Cannot be unknown.
23	Disposition Code	Obtain reason from captain. See Appendix M – Fish Disposition Codes.	3-digit code	"900" and comment.
24	Total Sample Weight	Weigh.	Pounds, to the nearest tenth	Cannot be unknown.
25	Estimation Method	Method used to estimate the total for this species/disposition. See Appendix N – Estimation Method Codes.	2-digit code	Cannot be unknown.
26	Weight Per Haul	Calculate. Total weight divided by number of hauls.	Whole pounds	Cannot be unknown.

CATCH ESTIMAT	ION WORKSF	IEET							C	DBS/TRIP ID		Α	
NMFS FISHERIES	<b>OBSERVER</b>	PROGR	AM							DATE LANDED	mm/yy	В	/
<u>05/01/16</u>									ŀ	HAUL #		F	
SORTING METHOD	)	ESTIMA [®]	TION METH	ODS				BASKET OR TOTE CO	DUNT OR	TALLY			
Check all that apply	1 01 = Actual (Sp	ring Scale	) 11 = Actu	al (Electronic Scale)			**	Unit Types: B = Basket, T = Tote, I	= Individual (ta	ally), O = Other	T		
	05 = Tally		03 = Bask	ket or Tote Count	Species	Disp.	**Unit	List Individual Sample Weights	Total Sampl	e # of Sample	Avg. Weight	Total # of	Total Est.
	02 = Volume-to-	-Volume	13 = Cour	nt-to-Count		Code	туре		weight	Units	per Unit	Units	weight
	14 = VVeignt-to-	vveignt	07 = Cum	h Composition Log	1 3	4	5	6	7	8	9	10	11
	12 = 11ap Subs	ampie	10 = Calc	ally Estimated	-		-	-		+	` '		
9 Other (Comment)	98 = Combinatio	on (Comm	ent)		2								
	99 = Other (Con	nment)	ionit)	CALIBRATION WT	-						·		
V	DLUME-TO-VOL	UME		2	3						•		
CATCH PILE SHAPE A	S SEEN FROM ABO	<u>VE:</u> 12		·									
Trapezoid				-	4						•		
	_•ft +ft J X	ft X	( ft X	0.5 =ft ³									
	idth 1 Width 2	Length Av	vg. Depth	Volume	5						•		
	<b>4</b> V	4 V	<i>t</i> .	2									
Rectangle w-	•π X•	• TLX	• II	=ft ³	6	_				_	•		
	i wiath Leng	tn Avç	g. Depth	volume	7								
	ft X	ft X	ft X	0.5 _ #3	1						· •		
لطا كظيكا	≥ Width Leng	th Avo	. Depth	Volume	8								
W W Full Oval or Half-Oval	5				0						·		
	∖ft X	ft X	. ft X 0.7	$'85 = . ft^{3}$	9						•		
	➡ Width Leng	th Avg	g. Depth	Volume									
Other Shapes or Combinatio	on: Draw and label all d	dimensions in	n comments.		10						•		
DEPTHS: Representative dept	hs (ft) systematically tak	ken throughou	ut the catch pile.	= . ft ³	COMMENTS :								
Include a single depth of 0.0 ft	if the catch pile is not in	a checker pe	en or slopes to ze	ro. Volume									
13													
A) Total Haul Vol.	B) Total Sub	sample Vol.	· 15	C) Sample Weight									
14 — E	asket(s) X 1.47	ft ³ =	ft ³	Multiplier									
I ⁴ 1	ote(s) X 2.65	ft ³ =	_•ft ³	(A ÷ B)									
·,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,, _,, _	Other(s) X	ft ³ =	_•ft ³	16									
	pe 17 A) Total	В	) Sample	10									
	Tote	_	,										
	Trap <b>18</b>		19	>> Copy to Front >>									
	Other												
DECKLOAD	ING and CUMUL	ATIVE S	UM										
Entire Deckloading	Deckloading M		ts Total Haul Vol										
20 12E	<b>12A</b>		14										
	ft ³ ft	t ³ =	ft ³										
of 21	eth.: Estimation Method us Vot. for cumulative sum ca	ed to obtain sp alculation. If no	pecies Total ot '01' or '11'										
Hauls show al	additional calculations &	use '98' on fro	nt.										
Species Di	sp. Total Sampled	*Est.	Weight per										
. 22 25		25	76										
	<u> </u>		20										
2													
3													
4													
5													
Ľ													

CATCH ESTIMAT	ION WORKSHEET							BS/TRIP ID		T	
NMFS FISHERIES	<b>OBSERVER PROGRA</b>	AM					D	ATE LANDED	mm/yy		1
_05/01/16	()),						F	AUL #			
SORTING METHO	D ESTIMAT	TION METHODS				BASKET OR TOTE CO	OUNT OR	TALLY			
Check all that apply	01 = Actual (Spring Scale)	) 11 = Actual (Electronic Scale)			**	*Unit Types: B = Basket, T = Tote, I	= Individual (ta	lly), O = Other			
1 Picked	05 = Tally	03 = Basket or Tote Count	Species	Disp.	**Unit	List Individual Sample Weights	Total Sample	# of Sample	Avg. Weight	Total # of	Total Est.
	02 = Volume-to-Volume	13 = Count-to-Count		Code	Туре		Weight	Units	per Unit	Units	Weight
	14 = Vveight-to-vveight	07 = Cumulative Sum									
4 Conveyor System	12 = 1rap Subsample	10 = Catch Composition Log	1		ļ						
9 Other (Comment)	98 = Combination (Comm	ent) MAREL SCALE	2								
	99 = Other (Comment)	CALIBRATION WT	£.								
V	OLUME-TO-VOLUME		3								
CATCH PILE SHAPE A	S SEEN FROM ABOVE:										
Trapezoid			4								
	ft +ft ] Xft X	$ft \times 0.5 =ft^3$									·
	Vidth 1 Width 2 Length Av	vg. Depth Volume	5		L				•		
	# V # ¥	4 2									
Rectangle w-		ft ^o	<b>ь</b>		ļ						
		. Depin Volume	7								
	S. ftX. ftX	. ftX05 = ft ³	<u> </u>					-			
	Width Length Avg.	Depth Volume	8								
Full Oval or Half-Oval					<b> </b>						
	<u>\&amp;</u>	$L = \frac{16}{10} \text{ tr} \times 0.785 = \frac{52.20}{10} \text{ tr}^3$	9						·		
	Width Length Avg.	. Depth Volume			1	,					
Other Shapes or Combination	n: Draw and label all dimensions in con	nments.	10						•		
DEPTHS: Representative dept	hs (ft) systematically taken throughout th	he catch pile. = ft ³	COMMENTS :								
Include a single depth of 0.0 ft	if the catch pile is not in a checker pen of	or slopes to zero. Volume									
1.41.61.6	151.01.3	1.1 1.2 0.9 0.0	Diad		$\gamma l$	keoplo eda	15 0	S 01-	ac V.o	10-	~
A) Total Haul Vol.	B) Total Subsample Vol.	C) Sample Weight	FIC U	UES (	17	react eag	es o		)ELKE	r pe	()
	Basket(s) X 1.47 ft ³ =	ft ³ Multiplier				J				•	
5220	Tote(s) X 2.65 ft ³ = $1.3$	$-25ft^3$ (A + B)									
	Other(s) Xft ³ =	ft ³									
	it Type A) Total E	B) Sample Z Q []									
	et 🗖 Tote										
TYPES	ht Trap	>> Copy to Front >>									
Cour	t Other					0					
DECKLOAL	ING and CUMULATIVE SU	M			Ç	4.1					
Haul Range Total	Deckloading weasurements Pile Vol. Remainder Pile Vol. A)	s Total Haul Vol				1					
			1				1				
	$\underbrace{ft^3}_{\overline{t}} - \underbrace{ft^3}_{\overline{t}} = \underbrace{ft^3}_{\overline{t}}$	ft ³		*						*	
Number Samp	Wgt, for cumulative sum calculation, if not	t '01' or '11'									
of Hauls show	all additional calculations & use '98' on front	t		1							
Species	orde Weight Method	Vveight per Haul		1			1.2				
1							10.0				
				l,	,						
₽́		-		$\mathbf{X}$							
3			· · ·		And the second of the second second second		1 ×				
4											
5			•				~	,			
1											

CATCH ESTIMATIC	N WORKSHEET							OE	BS/TRIP ID		1	
NMFS FISHERIES	<b>OBSERVER PROGRA</b>	М						DA	TE LANDED	mm/yy		1
05/01/16								HA	\UL#			
SORTING METHOD	ESTIMAT	ION METHO	DS				BASKET OR TOTE CO	DUNT OR T	ALLY			
Check all that apply	01 = Actual (Spring Scale)	11 = Actual	(Electronic Scale)			••	Unit Types: B = Basket, T = Tote, I	= Individual (tall	y), O = Other			
1 Picked	05 = Tally	03 = Baske	or Tote Count	Species	Disp.	**Unit	List Individual Sample Weights	Total Sample	# of Sample	Avg. Weight	Total # of	Total Est.
2 Shoveled	02 = Volume-to-Volume	13 = Count-	to-Count		Code	Туре		Weight	Units	per Unit	Units	. Weight
3 Deckloaded	14 = Weight-to-Weight	07 = Cumul	ative Sum	Cat Allabo	012	T	weighed all	1111	1	24	17	
4. Conveyor System	12 = Trap Subsample	10 = Catch	Composition Log	100, HAICENTIC	012		together	17.0		<u> </u>	17	
5 Pumping System	04 = Captain	06 = Visuali	y Estimated	Said Stantfin	100	0	21,23.8,23,23.2					
	98 = Combination (Comme	ent)	CALIBRATION WT	Squid NOVIIII	100		23.4, 23.1, 23, 22			·		
VOI							23.3,23	778.8	10	229	167	3710
CATCH PILE SHAPE AS S	SEEN FROM ABOVE:			5 ø				2-0.0	<u> </u>		10-	
Trapezoid	• f			SKGto /ille	MI	R	Kir bail 5			621	5	311
	$.4_{ft} + 7.2_{ft} \times 3.3_{ft} \times 3.3_{ft}$	0.87 ft x 0	$5 = 16.65 ft^3$	CALCE HEALTR	w i		pec inter		+			
Wid	Ith 1 Width 2 Length Avg	j. Depth	Volume	5					-			
		07	11000							1		
	$6.2\pi \times 1.2\pi \times 0$	<u>8</u> f n	$=40.72_{\rm ft^3}$	6			*			·		
	Width Length Avg.	Depth	Volume									
Triangle				7								
	ft Xft X	ftX_0	5 =ft ³									
	Width Length Avg.	Depth	Volume	8						·		
Full Oval or Half-Oval		•						[				
	∖ft Xft X	ft X0.7	85 =ft ³	9						·		
	G Width Length Avg.	Depth	Volume									
Other Shapes or Combination:	Draw and label all dimensions in com	ments.		10			I		<u> </u>	•		
DEPTHS: Representative depths	DEPTHS: Representative depths (ft) systematically taken throughout the catch pile. = ft ³ COMMENTS :											
include a single depth of 0.0 ft if th	he catch pile is not in a checker pen o	or slopes to zero.	Volume				Kept C	Squia	Stor	ica in	$\gamma$	
0.80609	1.1 1.1 0.8 1	.00.7	0908					1				
A) Total Haul Vol.	B) Total Subsample Vol.		) Sample Weight	1			box	es a	pprox	Ki -		
<u>В</u> ва	$1.47 \text{ ft}^3 = 1.47 \text{ ft}^3$	76n3	Multiplier					11.1	1	-1 . 1	-1	
5737 - TO	$te(s) \times 2.65 ft^3 =$	ft ³	(A + B)					L X	0,5	$\times 0$	· 2	
	her(s) X . ft ³ =	. ft ³										
			1100									Ì
OTHER Unit	Toto A) Iotal B	s) Sample	488	4.4								
			> Copy to Front >>			7	0 0 1 - 2	·?				
TYPES Count	Other			/  \		5	9.8-6.5=3	.3				
DECKLOADIN	<b>IG and CUMULATIVE SUM</b>	M		*/	$\backslash$	5		*******				
Entire Deckloading	Deckloading Measurements											
Haul Range Total Pile	e Vol. Remainder Pile Vol. A) T	lotal Haul Vol.				~						
	$ft^3 = ft^3 =$	ft ³				}						
*Est.Meth		cies Total	/	/			·					
of Hauls Samp. W	gt. for cumulative sum calculation. If not	'01' or '11'	996			$\mathbf{\mathbf{b}}$	6.5					1
show all a	Total Sampled 1 *Est	Weight per	1.0				$\psi$ :=					
Species Cod	le Weight Method	Haul				(						
1			· · · · · · · · · · · · · · · · · · ·		ł	\						
						)						
<u> </u> <u>⊢</u>	·					<u> </u>						
3				+,2								
4												
5												
L		I		·····								l

CATCH ESTIN	ΙΑΤΙΟ	DN WO	ORKSHEET	(SCALI	_OP)							OBS/TRIP ID		Α		
NMFS FISHEF	RIES	OBSE	RVER PRO	GRAM								DATE LANDE	ED mm	/yy B	/	
05/01/16												HAUL #		F		
SORTING MET	HOD	01 4	ES7				5 (Electronic Sc		DEC	KLOADING	*Ectim	C tion Mothod use		ATIVE SU		t for
1 Picked	^{ny} 1	01 = A 05 = T	ally	cale)	11 = 1 03 = 1	Rasket	or Tote Coun	ale)	H	aul Range	cumula	tive sum calcula	tion. If no	ot '01' or '11' sh	w all addit	ional
2 Shoveled		00 = 1 02 = V	olume-to-Volum	ne	13 = 0	Count-t	o-Count		20		calcula	tions and use '9	8' on fror	ıt.		
3 Deckloaded		14 = V	/eight-to-Weigh	t	07 = 0	Cumula	ative Sum					Species	Disp.	Total Sampled	*Est.	Weight
4 Conveyor Sy	/stem	12 = T	rap Subsample		10 = 0	Catch C	Composition L	og	Num	ber of Hauls		Species	Code	Weight	Method	per Haul
5 🗖 Pumping Sys	stem	04 = C	aptain		06 = 1	Visually	/ Estimated			21		22	23	24	25	26
9 🗖 Other (Comr	nent)	98 = C	ombination (Co	mment)							1					-
1A		99 = C	ther (Comment	)												
			BASKET OR	FOTE CC	UNT	OR TA	LLY				2					
	T	**Un	it Types: B = Basket	, T = Tote, I	= Individ	ual (tally)	, O = Other	-		-						
Species	Disp.	**Unit	List Individual	l otal Sample	# of S	ample	Avg. Weight pe	er To	tal # of	Total Est.	3					
opooloo	Code	Туре	Sample Weights	Weight	0	iits	Unit		Units	Weight						
3	4	5	6	7	9	2	٥		10	11	4					
1	-	5	U	'		,	·	_	10	11						
											5					
2							•	_								
											6					
3							•	-								
		V	OLUME-TO-V	DLUME					MARE	EL SCALE	7					
CATCH PILE SHA	PE AS	SEEN F	ROM ABOVE:	12					CALIBR	RATION WT						
Full Oval		Hal	f-Oval	Rectangle	_				2		8					
W		^ - [ ∕			7					·						
	_	L <u></u>		L	-	DEPTHS taken th	S: Representative roughout the catch	deptns h nile l	(ft) syst	ematically single depth of	9					
Ĺ			L	Ĺ		0.0 ft if t	he catch pile is no	ot in a c	hecker p	ben or slopes to						
Other Shapes or Com	nbinatio	ns: Draw	& label all dimens	sions in co	nments	zero.	•				10					
A1) REMAINDER	VOLU	ME fro	m previous ha	ul(s)			10			COMMENTS	:					
Starboard Circ	cle One	: Full	Oval Half-Oval	Rectangle		Depths	13									
			12A		e3											
ft X	_ft X		- [#] (X 0.785)	=	ft*	·	··	·	·-							
vviath Length		Avg. De	ptn (ovais)	volume	9											
Port Cire		. 5.11		Postonalo		•			·							
		. rui	Oval Hall-Oval	Rectangle		Deptilis			1	-						
. ft X .	ft X		ft (X 0 785)		ft³			_								
Width Length	_ //	Avg. De	pth (ovals)	Volume	)											
0		0	,													
A1) TOTAL REMAIN	DER VO	OLUME (	Starboard + Port)	=	ft ³											
A2) TOTAL VOLU	ME af	ter curi	ent haul dump	ed												
Starboard Circ	cle One	: Full	Oval Half-Oval	Rectangle		Depths			-							
			128													
• ft X•_	_π χ		- ^π (Χ 0.785)	=	ft*	·	·_		·-							
Width Length		Avg. De	pth (ovals)	Volume	9											
Port Cir	ala Ona	. 5.11		Postonalo		•	··	'	<b>·</b>							
	lie One	. ruii		Rectangle		Deptris										
ft X	ft X		ft (X 0 785)	=	ft°											
Width Length		Avg. De	pth (ovals)	Volume	) )											
, i i i i i i i i i i i i i i i i i i i																
A2) TOTAL CATCH F	PILE VO	DLUME (	Starboard + Port)	=	ft ⁻	8										
A) Total Haul Vo	Ι.		B) Total Su	bsample Vo	ol. 1	5	C) Samp	ole W	eight							
		Baske	t(s) X 1.4	47 ft ³ =	·	ft ³	Mul	tiplie	r							
14 "		Tote(s	s) X 2.0	65 ft ³ =	•	ft ³	(A	÷B)								
·π		Other(	(s) X	ft ³ =		ft ³	16									
		it Tumo		<b>1</b>	D) C		'`									
	Basket		Tote	lai	6) 3	ampie										
	Weigh		Trap 18		19		>> Copy	to Fro								
	Count		Other													
										<u>1</u>						
L																

CATCH ESTI NMFS FISHE 05/01/16	ATCH ESTIMATION WORKSHEET (SCALLOP)  MFS FISHERIES OBSERVER PROGRAM  DATE LANDED mm/yy / HAUL #												
SORTING ME Check all that and 1 Picked 2 Shoveled	THOD oply	01 = A 05 = T 02 = V	EST ctual (Spring So ally olume-to-Volum	IMATION cale) ne	I METHOD 11 = Actual 03 = Baske 13 = Count	S (Electronic Scal t or Tote Count -to-Count	e) DEC Entire H	KLOADING Deckloading aul Range	C *Estimation Method use cumulative sum calcula calculations and use '9	UMUL ed to obta tion. If no 8' on from	ATIVE SUN ain species Total ot '01' or '11' sho it.	A Samp.Wo w all addit	it. for ional
4 Conveyor S	System System	14 = V 12 = T 04 = C 08 = C	rap Subsample aptain	(	07 = Cumu 10 = Catch 06 = Visual	Composition Log ly Estimated	g Num	nber of Hauls	Species	Disp. Code	Total Sampled       Weight	Method	veight per Haul
		90 = C 99 = C	ther (Comment					1	Scallos	100	523	03	131
		**Un	it Types: B = Basket	, T = Tote, I = Total	Individual (tall)	y), $O = Other$	T-1-1 # -6	T THE FR	Seculat	002	20	04	5
Species	Disp. Code	Type	List Individual Sample Weights	Sample Weight	Units	Avg. vveight per Unit	Units	Weight	erriges	102			<u> </u>
1						••			4	<b> </b>			
2						. <u></u>			5				
3						·			6.				
CATCH PILE SH	APE AS	V SEEN F Hal	OLUME-TO-VO ROM ABOVE: f-Oval			<b>.</b>	MARI CALIBI	EL SCALE RATION WT	8				
w-[	>	∾-[∠			]			····· · ····	0				
L Other Shapes or Cr	i		L L S label ell dimensio	L.	DEPTH through	IS: Representative depoint the catch pile. Inc	oths (ft) syst lude a singl	ematically taken e depth of 0.0 ft	10				
A1) REMAINDER VOLUME from previous haul(s) COMMENTS :													
Starboard C	ircle One	: Ful	Oval Half-Oval	Rectangle	Depths			*	,	~	, C		
Width txft xft (X 0.785)=ft (X 0.785)=ft (vals) Volume ft (vals) Vals) Volume ft (vals) Vals) Volume ft (vals) Volume ft (vals) Vals) Volume ft (vals) Vals) Vals (vals) Vals													
Port Circle One: Full Oval Half-Oval Rectangle Depths CYEW FOY SMall													
Width Length Xft (X 0.785)=ft ³ ft ³ SCallops discarded													
A1) TOTAL REMAI	NDER V	OLUME	(Starboard + Port)		ft [°]				( Letti	"J	$\mathbb{O}^{N}$		
Starboard C	ircle One	: Ful	I Oval Half-Oval	Rectangle	Depths	s I I I		-					
Width Leng	ftX	Avg. De	ft (X 0.785 pth (ovals)	)=· Volume	ft*		:						
Port C	ircle One	: Ful	IOval Half-Oval	Rectangle	Depths								
Width Leng	th	Avg. De	epth (ovals)	Volume			·						
A2) TOTAL CATCI A) Total Haul V	1 PILE V(	DLUME	Starboard + Port) B) Total Sul et(s) X 1.4	= bsample Vo 47 ft ³ =	π νft ³	C) Sample Multip	Weight lier						
┃ft	,  -	Tote(: Other	s) X 2.0 (s) X .	65 ft ³ = ft ³ =	ft ³	(A +	В)						
OTHER SUBSAMPLE	Ва	Unit Ty asket	vpe A Tote O	) Total	B) Sample	<u>5</u> .	$\underline{19}$						
TYPES		ount	Other O	$\mathcal{I}$									
Crew	SI	$\gamma \circ \vee$	elccl	all	CŒ	tch a	èfte	er ho	iul 17.	- 8	3 ba	SKO	ts
Isan	nple	ccl	4 ba	sket	-s/h	aul (	2/S	ide)	-16				
Allf	inf	ish	left	- on	de	ck fr	ъM,	alí	hauls				
L <u></u>						<u></u>				OMB C	ontrol No: 064	18-0593	

CATCH ESTIMATION WORKSHEET (SCALLOP)  NMFS FISHERIES OBSERVER PROGRAM DATE LANDED mm/yy HAUL								/yy	1	
SORTING METHOD Check all that apply 1	ES 01 = Actual (Spring S 05 = Tally 02 = Volume-to-Volur	<b>FIMATION METHOD</b> cale) 11 = Actual 03 = Baske ne 13 = Count	S I (Electronic Scale) et or Tote Count -to-Count	DECK Entire D Hau	LOADING Deckloading ul Range	*Estimation Method to cumulative sum calcu calculations and use	CUMUL used to obta ulation. If no '98' on from	ATIVE SUN ain species Total of '01' or '11' sho at.	<b>1</b> Samp.Wg w all addit	gt. for tional
4 Conveyor System	14 = Weight-to-Weigh 12 = Trap Subsample	t 07 = Cumu 10 = Catch	Composition Log	Numbe	er of Hauls	Species	Disp. Code	Total Sampled Weight	*Est. Method	Weight per Haul
9 Other (Comment)	04 = Captain 98 = Combination (Co	omment)	ly Estimated	5	5	1				
	BASKET OR	) TOTE COUNT OR T	ALLY	L		2				
Disp.	**Unit Types: B = Baske	T = Tote, I = Individual (tall Total # of Sample	y), O = Other Avg. Weight per To	otal # of	Total Est.	3				
Code	Type Sample Weights	Veight Units	Unit	Units	Weight	4				
l			* <u> </u>			5				·
2						6				
3			·	MADEL	SCALE		-			
CATCH PILE SHAPE AS	SEEN FROM ABOVE:			CALIBRA	ATION WT	<u>/</u>				
		Rectangle			·	8				
	د <u></u> د د	L DEPTH	IS: Representative depths nout the catch pile. Include	s (ft) system e a single d	natically taken depth of 0.0 ft	9		-		
Other Shapes or Combinatio	ns: Draw & label all dimens ME from previous ha	ons in comments. if the ca ul(s)	atch pile is not in a check	er pen or slo	opes to zero.	10		<u> </u>		l
Ther Shapes or Combinations: Draw & label all dimensions in commends:       The catch pile include a single depth of 0.1 (III)         The catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen or atops to zero.       IIII catch pile is not in a checker gen atops to zero.       IIII catch pile is not										

# **Discard Log**

This purpose of this log is to systematically capture discarding events and the associated data. This log is required for all hauls in which pumping occurs, regardless of target species or gear type observed, unless there is no catch (kept or discarded). Generally, these are high-volume fisheries in which discard information is critical to collect. Additionally, this log should be used in non-pumping fisheries if a significant discarding event occurs, but is not required on every haul. This log should be completed in addition to the <u>Haul Log</u> for each particular gear type. Offer the captain a copy of the <u>Fishermen's Comment Log</u>, to document any issues that occurred during this haul.

All discards recorded on the <u>Haul Log</u> must be accounted for and described on the <u>Discard Log</u>, including those brought onboard and sorted prior to discarding. If no catch exists, check CATCH = "No" on the <u>Haul Log</u>, and do not fill out a <u>Discard Log</u>.

#### Comments

Document and describe the weight, species composition, and discard reason(s) for the released catch as accurately as possible. Record the corresponding weight on the species section of the <u>Haul Log</u>, labeling any catch released before coming onboard as "Fish, NK" because identification is not verifiable. Any catch brought onboard should be identified as fully as possible.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	<b>"</b> 2"
1	Discards Exist?	Yes/No.	1-digit code	"9″.
2	All Catch Sampled?	Yes/No.	1-digit code	Cannot be unknown.
		If any catch slipped from this vessel,		If no catch, mark "Not
		must be "No".		applicable".
		Comment if any portion of the catch		
0.*		is not sampled.		
3*	See Contents of	Visually confirm.	1-digit code	Cannot be unknown.
	Codend?	If any amount discarded without		
		coming onboard, mark "Yes, all/some		
4*	Desear Catal	Contents seen in water .	Charle have	((0))
4*	Reason Catch	Check all that apply.	Спеск бох	······································
- *	Discarded?			
5*	Who Estimated	Visually confirm.	Check one	Cannot be unknown.
	Discarded Catch?	"Observer" refers to you and		
		"captain" refers to the captain of the		
		vessel you are on.		<i>"</i> 0"
6	Catch Pumped to	Yes/No.	Check one	"g".
	Another Vessel			<b>"</b> 2"
7	Observer Onboard Other	Yes/No.	Check one	"9″.
-	Vessel			
8	Other Observer's TripID	Obtain from other observer.	3-character	Dash.
			ObsID plus 3-	Leave blank if no
			digit trip	observer on other
			number	vessel.
9	Other Observer's Haul #	Obtain from other observer.	3-digit number	Dash.
		May difter from your haul number.		Leave blank if no
				observer on other
				vessel.
10*	Discard Event	Check all that apply.	Check box	Cannot be unknown.

¹⁰ Does not include operational discards. See the <u>FSB Observer Operations Manual</u> for complete definition of slippage.

Field #	Name	Collection Type/ Special Instructions	Units/ Format	Unknown Values
11*	Reasons Not Brought Onboard	Describe any reasons why the catch could not be pumped/hauled onboard.	Comment field	Leave blank.
12*	Catch Composition of Discarded Catch	Describe the catch composition of the discarded catch and how those determinations were made.	Comment field	Leave blank.
13*	Challenges with Haul	Describe any challenges that occurred while observing this haul. Might include, but is not limited to, weather related reasons, viewing of codend or bunt, and/or gear related issues.	Comment field	Leave blank.

### No or Unknown Discards

If there are no discards for this tow, or if the catch is pumped/hauled to another vessel and you are unable to determine if discards exist, much of the information will be unknown or not applicable. For the following fields, record the values indicated below. For all other fields, record as usual.

Field #	Name	Record if No Discards	Record if Discards Unknown
1	Discards Exist?	"No".	"Unknown".
4	Reason Catch Discarded?	"Not applicable".	"Unknown"
5	Who Estimated Discarded	"Not applicable".	"Not applicable".
	Catch?		
10	Discard Event	"Not applicable".	"Unknown".

DISCARD LOG						OBS/ TRI	IP ID	A
NMFS FISHERIES	OBSERVER PROG	RAM				DATE LA	ND (mm/yy)	B /
OBPDQ 05/01/16						PAGE #		C OF
GEAR CODE GEAR	R # HAUL #	Why was the catch discarded on	Who estimated the	Was there an observer onboard	Check off the discard even	it. R	REASONS NOT BROUG	HT ONBOARD: Describe any
D E	F	this haul?	weight of the	the other vessel? If ves. provide	(CHECK ALL THAT APPLY)	re	easons why the catch co	uld not be pumped/hauled
		(CHECK ALL THAT APPLY)	discarded catch?	the Tripid and Haul Number.	10	0	nboard.	11
		4	5	7	-			
			Observer (1)					
Were there discards	When the pumping/hauling	-						
for this tow?	process was complete	Unknown (0) (comment)	Captain (2)	No (0)	Unknown (0) (comment	t)		
1	were you able to see the					-,		
No (0)	contents of the codend/	Market (1)	Combination (8)	Yes (1)	Operational discards (1	)		
	bunt? 3		(2)			,		
Yes (1)	No (0)	Regulations (2)	Not applicable	Unknown (9)	Tow was partially			
					released (2)			
Unknown (9)	Yes, all contents seen	Quality (4)	Was any of the catch					
_ ~ ~ (~)	on deck (1)		pumped to another	TRIPID: 8	Tow was fully			
Was all catch brought to		Not brought onboard (5)	vessel?		released (3)			
the observed vessel	Yes, all/some contents		6	HAUL #: 9				
pumped/hauled onboard	seen in water (2)	Other (9) (comment)	No (0)		Discarded after being			
und completely sumpled.					brought onboard (4)			
		Not applicable	Yes (1)		0 ()			
2					Other (9) (comment)			
No (0)			Unknown (9)					
					Not applicable			
Yes (1)								
Not applicable								
CATCH COMPOSITION	OF DISCARDED CATCH: Des	scribe the catch composition of the d	liscarded	CHALLENGES OBSERVING THIS HA	AUL: Describe any challenge	s that occur	rred with observing this h	aul:
catch and how those deter	rminations were made.							
	12			13				
	12			15				
<u> </u>				<u> </u>				

OMB Control No.: 0648-0593 Expires on: 10/31/2018

DISCARD LOG						OBS/ TRIP ID	A99029-
NMFS FISHERIES	<b>OBSERVER PROGR</b>	RAM				DATE LAND (mm/yy)	10 / 16
OBPDQ 05/01/16						PAGE #	4 OF 4
GEAR CODE GEAR	# HAUL #	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 even (CHECK ALL THAT APPLY)	t. REASONS NOT BROUG reasons why the catch co onboard.	HT ONBOARD: Describe any uld not be pumped/hauled
Were there discards	When the pumping/hauling	-	X Observer (1)			from net. They were when pump was dis	seen in the water connected.
for this tow?	process was complete were you able to see the	Unknown (0) (comment)	Captain (2)	No (0)	Unknown (0) (comment	()	
No (0)	contents of the codend/ bunt?	X Market (1)	Combination (8)	<u>X</u> Yes (1)	X Operational discards (1	)	
X Yes (1)	No (0)	Regulations (2)	Not applicable	Unknown (9)	Tow was partially released (2)		
Unknown (9)	Yes, all contents seen on deck (1)	Quality (4)	Was any of the catch pumped to another	TRIPID: <b>B99018-</b>	Tow was fully		
Was all catch brought to the observed vessel pumped/hauled onboard	X Yes, all/some contents	X Not brought onboard (5)	vessel?	HAUL #: 001	released (3)		
and completely sampled?	seen in water (2)	Other (9) (comment)	No (0)		X Discarded after being brought onboard (4)		
		Not applicable	X Yes (1)		Other (9) (comment)		
No (0)			Unknown (9)		□ Not applicable		
X Yes (1)							
CATCH COMPOSITION C catch and how those deter	DF DISCARDED CATCH: Des minations were made.	scribe the catch composition of the di	scarded	CHALLENGES OBSERVING THIS HA	AUL: Describe any challenges	s that occurred with observing this h	naul:
Market/discard aft	er pumping = spiny dogfish	picket at grate (17 lbs) and discar	ded	~100,000 pounds pumped to	o F/V Susan B.		
Operational disca	rds seen floating in water - a	all looked to be silvery, herring-bo	died fish				
No released catch	from this boat. I sampled a	in catch that came onboard.					

DISCARD LOG				
NMFS FISHERIES AT-SEA M	ONITORING PROGRAM		DATE LAND (mm/yy) <b>B</b>	
05/01/16			PAGE # <b>C</b> of	
GEAR CODE GEAR # HA	UL # Who estimated t	ne weight of th	e discarded catch?	5
	<b>F</b> Observer	Capta	in Combination	
· · · · ·	CHECK ALL THAT	APPLY		
Were you able to see the	Why was the catch discarded	on this haul?	Check off the discard event.	
contents of the codend when	Unknown			
the catch was released?	4		10	
3	Market		Tow was partially	
No 🗆			released	
	Regulations			
Yes, all contents			Tow was fully	
seen on deck	Quality		released	
Yes, all/some contents	Not brought onboard		Other (comment)	
seen in water				
	Other (comment)			
REASONS NOT BROUGHT C	NBOARD: Describe any reaso	ns why the cat	tch could not be hauled onboa	ard.
11				
CATCH COMPOSITION OF D	ISCARDED CATCH: Describe	the catch con	nposition of the discarded	
catch and how those determin	ations were made.			
12				
CHALLENGES OBSERVING	THIS HAUL: Describe any cha	llenges that oc	curred with observing	
this haul.				
13				

DISCARD LOG			OBS/TRIP ID	A99014-					
NMFS FISHERIES AT-SEA M	ONITORING	PROGRAM		DATE LAND (mm/yy)	10 / 16				
05/01/16				PAGE #	<u>4</u> of <u>4</u>				
GEAR CODE GEAR # HA	UL #	Who estimated	d the weight of t	he discarded catch?	in a tin a				
050 02	0 4	Observer	Capt	ain Comb	pination				
				A					
Were you able to see the	Why was the	eatch discard	ed on this haul?	Check off the disca	rd event				
contents of the codend when	Unknown				id event.				
the catch was released?	Children								
	Market		X	Tow was partially					
No			~	released	_				
	Regulations								
Yes, all contents				Tow was fully	X				
seen on deck	Quality			released					
Yes, all/some contents	Not brought	onboard		Other (comment)					
seen in water									
REASONS NOT BROUGHT C	DNBOARD: D	escribe any rea	sons why the ca	atch could not be hau	led onboard.				
The codend was not brought onboard due to a large amount of spiny dogfish. All catch was released into the water.									
CATCH COMPOSITION OF D	ISCARDED (	CATCH: Descr	ibe the catch co	mposition of the disca	arded				
catch and now those determin	ations were m	lade.							
The majority of the o I did not see any oth	The majority of the catch was spiny dogfish. There were a few skates (skate, nk). I did not see any other species.								
		Deceribe areas	hollongeo that -	an urrad with share in	~				
CHALLENGES OBSERVING	I HIS HAUL:	Describe any c	nallenges that c	occurrea with observin	g				
uno naui.									
Due to the size of th	e bag. the ca	ptain did not	want me on de	ck for safety reason	s.				
I was able to go out	on deck mor	nents after the	e codend was r	eleased into the wat	er.				
<b>U</b>									

# **Crustacean Sample Log**

This log is designed to collect biological data on the size and condition of individual lobsters and crabs. These data are used to determine crustacean mortality rates, and to assess the effects of fishing on these rates.

Complete this log on a per haul basis during deployments targeting lobsters and crabs. It should also be completed to sample lobsters and crabs caught on other deployments, as the biological sampling priorities specify, and as time permits. *Only one species may be recorded on a log*, as the information collected for lobsters and crabs differs.

Follow the lobster sampling strategies described in the 2016 NEFSC Observer On Deck Reference Guide.

If you are unable to collect all of the information for every animal sampled, the priority of data collection should be the order (left to right) of the fields listed on the log. All animals sampled must have a CARAPACE LENGTH or CARAPACE WIDTH and CATCH DISPOSITION recorded.

When more than 50 animals are sampled, continue sampling on the back of the log, and number each page accordingly.

#### Comments

Record information regarding this sample or your sampling methods (e.g. the reason all animals caught were not sampled) below. If more room is needed, use the back of this log, making sure to write "See Back" on the front of the log. Reference each comment with its corresponding field name or animal number.

Field #	Name	Collection Type/	Units/	Unknown Values												
		Special Instructions	Format													
1	Number of Animals	Count or visual estimate.	Whole number	Cannot be unknown.												
	Caught	Total for the haul, regardless of														
		number sampled.														
2	Count – Actual or	Actual (counted) or Estimated.	A or E	Cannot be unknown.												
	Estimated															
3	Shell Disease Percentage	Calculate.	Whole Percent	Dash.												
		Number of affected animals divided														
		by total number of animals.														
4	Carapace Length/Width	Measure with calipers.	Whole	Cannot be unknown.												
			millimeters													
5	Catch Disposition	Kept or Discarded.	K or D	Cannot be unknown.												
6	Sex	Visually determine.	1-digit code	"0".												
7	Egg Stage	Visually determine.	1-digit code	"0".												
8	Lobster V-Notch	Visually determine.	1-digit code	"0".												
9	Lobster Molt	Visually confirm.	1-digit code	"0".												
10	Lobster # of Claws	Count.	Whole number	Dash.												
		Claws must have a shell, regardless of														
		size or shell condition.														
		Do not count regenerating claws														
		which are small, fleshy appendages														
		("buds") with no shell.														
												OBS/	TRIP ID			A
----------------------------	----------------------------------	-----------------------	-------------	-------------	---------------------------------	------------------	------------------	---------------------------	-----------------------------------	----------	-------------------	-------------	------------	------------------	-----------------------	------------------------
CRU	STACEAN		LE L	OG							DATE LANDED mm/yy				B /	
<b>NMF</b>	S FISHER	IES OB	SER	VER	PRO	GRA	M					PAG	Ξ#			
DBC	RU 05/01	1/16										HAUI	_ #			F
		SP	ECIES			0005			A	NIMALS C	AUGH	T	/ =			SHELL DISEASE
NAIVIE	Α'					B'		NUMB	LK 1			2 PE				3
		1		1	LOB	STER C	ONLY					1	LOB	STER	ONLY	
CARAF OBSTE CRAB - V	PACE (mm) R - LENGTH WIDTH	C D I S P	S E X	E G G	V - N O T C H	M O L T	# C L A	CARAI LOBSTE CRAB -	PACE (mm) ER - LENGTH WIDTH		S E X	E G G	V NOTCH	M O L T	# C L A W	
		(K7D)		_			••			(K / D)						
1	4	5	6	7	8	9	10	26								
2								27								
3								28								SEX CODES:
4								29								0= Unknown
5								30								1=Male
6								31								2=Female
7								32								EGG CODES:
8								33								0=Unknown
9								34								1=No eggs
10								35								2=Eggs, stage unknown
11								36								3=Eggs, newly extruded
12								37								4=Eggs, eyed
13								38								5=Eggs, hatching
14								39								6=Spent
15								40								V-NOTCH CODES:
16								41								0=Unknown
17								42								1=No
18								43								2=Yes, old
19								44								3=Yes, new
20								45								MOLT CODES:
21								46								0=Unknown
22								47								1=Soft
23								48								2=Paper
24								49								3=Hard
25								50								4=Splitter

#### CRU NMF OBC

												OBS/1	rrip id			A99036-
CRU	STACEAN	SAMP	LE L	OG								DATE LANDED mm/yy				05 / 16
NMF	S FISHER	IES OB	SER	VER	PRO	GRA	M					PAGE	#			3 OF 3
OBC	RU 05/0 ⁻	1/16										HAUL	#			044
NAME		SP	ECIES			CODE		NUMB	ER /	ANIMALS C	AUGH	TA /	'E		PERC	SHELL DISEASE ENTAGE
	American I (	heter							33							12
		DSIEI			LOB	STER (	ONLY		55				LOB	STER	ONLY	12
CARAF LOBSTE CRAB -	PACE (mm) R - Length Width	C D I S P (K / D)	S E X	E G G	V - N O T C H	M O L T	# C L A W	CARAF LOBSTE CRAB -	PACE (mm) ER - LENGTH WIDTH	C D I S P (K / D)	S E X	E G G	V - N O T C H	M O L T	# C L A W	
1	117	D	2	4	1	3	2	26	120	D	2	5	1	3	2	
2	90	ĸ	2	1	1	2	2	27	103	ĸ	2	1	2	2	2	
2	30		2			5	2	21	105	ĸ	2		2	5	2	
3	93	ĸ	1	1	1	3	2	28	91	ĸ	2	1	1	3	2	SEX CODES:
4	133	к	1	1	1	3	2	29	106	К	2	1	2	3	2	0= Unknown
5	124	D	2	4	2	3	2	30	102	К	1	1	1	3	0	1=Male
6	130	к	1	1	1	3	2	31	118	D	2	4	1	3	2	2=Female
7	131	D	2	4	2	3	2	32	117	D	2	4	2	3	2	EGG CODES:
8	122	к	1	1	1	3	2	33	132	D	2	3	2	3	2	0=Unknown
9	118	к	2	1	1	3	2	34								1=No eggs
10	100	к	1	1	1	3	2	35								2=Eggs, stage unknow
11	132	к	2	1	2	3	2	36								3=Eggs, newly extrude
12	148	к	2	1	1	3	2	37								4=Eggs, eyed
13	134	к	1	1	1	3	2	38								5=Eggs, hatching
14	101	D	2	3	1	3	2	39								6=Spent
15	102	к	2	1	1	3	2	40								V-NOTCH CODES:
16	116	к	2	1	2	3	2	41								0=Unknown
17	108	к	2	1	2	3	2	42								1=No
18	105	к	1	1	1	3	2	43								2=Yes, old
19	103	к	2	1	1	3	2	44								3=Yes, new
20	123	к	2	1	1	3	2	45								MOLT CODES:
21	138	к	1	1	1	3	2	46								0=Unknown
22	99	к	1	1	1	3	2	47								1=Soft
23	116	к	1	1	1	3	1	48								2=Paper
24	107	к	1	1	1	3	2	49								3=Hard
25	108	D	2	4	1	3	2	50								4=Splitter

COMMENTS

4 lobsters had a brown, spotting shell disease. Females w/eggs were discarded.

												OBS/T	RIP ID		1	
												DATE		D mm	/уу	
												PAGE	#			
<b></b>						OTED		1				HAUL	#	OTED (		
		C			LOB	SIER				<u> </u>			LOB V	SIER	JNLY	
CARA LOBST CRAB ·	PACE (mm) Ter - Length - Width	D I S P (K / D)	S E X	E G G	N O T C H	M O L T	# C L A W	CARA LOBSTI CRAB -	PACE (mm) ER - LENGTH WIDTH	С D I S P (K / D)	S E X	E G G	N O T C H	M O L T	# C L A W	
51								76								
52 53								77 78								SEX CODES:
54								79								0= Unknown
55								80								1=Male
56								81								2=Female
57								82								EGG CODES:
58								83								0=Unknown
59								84								1=No eggs
61								86								2=Eggs, stage unknown
62								87								4=Eggs, eyed
63								88								5=Eggs, hatching
64								89								6=Spent
65								90		ļ						V-NOTCH CODES:
66								91								0=Unknown
67	,							92								1=No
68								93								2=Yes, old
69 70	)							94								3=Yes, new
70								90								
72								90 97								1=Soft
73				1	1			98				1				2=Paper
74								99								3=Hard
75								100								4=Splitter
COM	VIEN I S															

# Marel Scale Worksheet

The purpose of this worksheet is to document the performance of the electronic Marel scales. If you are assigned a Marel scale you must complete a <u>Marel Scale Worksheet</u> for every trip, regardless of whether or not the scale is used. This worksheet is used for all programs.

Record the results of your daily tests and comment on any error messages or unusual results. If you are unable to use the scale for certain hauls, indicate on the <u>Haul Log</u> why the Marel scale was not used.

#### Comments

Provide details on any error messages, fit values or calibration weights outside of normal ranges, and any other factors influencing the scale reading.

If you cannot take your issued Marel scale on a trip, you must complete this worksheet and describe the reason the Marel scale was not used.

Field #	Name	Collection Type/	Units/	Unknown Values
		Special Instructions	Format	
1	Scale Serial Number	Number displayed on the face unit.	7 characters	Cannot be unknown.
		NOT the number on the metal handle.		
2	Vessel Name	Obtain from captain.	N/A	Cannot be unknown.
3	Daily Test Date	Date the test was completed.	MM/DD/YY	Cannot be unknown.
		If multiple tests conducted on a single		
		day, record the time in comments.		
4	Fit Value	Indicator of how well the scale is	Whole number	Cannot be unknown.
		performing in the marine conditions.		
		Calm weather: must be $\leq$ 25.		
		Rough weather: must be ≤ 70.		
5	Calibration Weight	Must be between 11.00 and 11.10 to	Pounds, to the	Cannot be unknown.
		use the scale.	nearest	
			hundredth.	
6	Daily Test Comments	Describe any error messages or other	Comment field	Cannot be unknown.
		problems with the daily test.		
7	Event Date	Date of any event resulting in the	MM/DD/YY	Cannot be unknown.
		scale not being used or requiring		
		retest.		
		If multiple events in a single day,		
		record the time in explanation.		
8	Event Code	Reasons why the scale could not be	1-digit code	Cannot be unknown.
		used or had to be retested.		
9	Event Explanation	Provide additional details.	Comment field	Cannot be unknown.

MAREL SCAL	_E WORKSHE	ET		OBS/TRIP ID A				
NMFS FISHE	RIES OBSERV	VER PROGRAM		DATE LANDED mm/yy	B /			
05/01/16				PAGE #	C of			
SCALE SERIAL	NUMBER		VESSEL NAME					
	1		2					
DAILY TEST	rs							
DATE	FIT VALUE	CALIBRATION WEIGHT	COMMENTS					
(mm/dd/yy)		(must be 11.00 - 11.10 to use)	-					
/ <b>3</b> /	4	<u> </u>	6					
/ /		·						
/ /		·						
/ /		·						
/ /		·						
/ /		·						
		••						
/ /		·						
/ /		·						
/ /		·						
EVENTS								
DATE	EVENT	EXPLANATION						
(mm/dd/yy)	CODE							
/ <b>7</b> /	8	9						
/ /								
/ /								
/ /								
/ /								
/ /								
/ /								
EVENT CODES	3							
1 = Unable to b	ring on trip							
2 = Error Messa	age							
3 = Unable to c	alibrate							
4 = Damaged/lo	ost							
5 = Unable to e	stablish samplir	ng station						
6 = Other								

MAREL SCAL	E WORKSHE	ET		OBS/TRIP ID	A99101-
NMFS FISHE	RIES OBSERV	/ER PROGRAM		DATE LANDED mm/yy	10/ 16
05/01/16				PAGE #	1 ^{of} 2
SCALE SERIAL	NUMBER		VESSEL NAME		
<i>,</i>	A114321		Comorar	nt	
DAILY TEST	S		•		
DATE	FIT VALUE	CALIBRATION WEIGHT	COMMENTS		
(mm/dd/yy)		(must be 11.00 - 11.10 to use)			
10 /13 /16	2	<u>11.00</u>			
10 /14 /16	5	<u>1 1 . 0 0</u>			
10/15/16	17	<u>    1_100</u>			
10/16/16	24	<u>_1_10_0</u>			
10 /17 /16	90	<u>_1_10_5</u>	E-05, rough weat	her, tried 3 times, all hi	gh fit values
10 /18 /16	13	1_10_0_			
10/19/16	11	<u>_1_10_5</u>			
10/20/16	6	<u>11.00</u>	E-08, E-05, recali	brated and codes went	away
10 / 21 / 16	0	<u>1 1</u> <u>0 5</u>			
10/22/16	9	_1_10_0	Scale would not	turn on. Changed batte	ries and worked
EVENTS	<b></b>	<b></b>			
DATE (mm/dd/yy)	EVENT CODE	EXPLANATION			
10/17/16	2	Tried next haul, calibrated	fine		
<u>10/21</u> /16	2	E-08, was not able to corre	ct on deck, tried 3	times. Tried next haul	and worked fine.
10/22/16	5	Large catch on deck, no sp	bace for scale		
/ /					
/ /					
/ /					
/ /					
/ /					
/ /					
/ /					
EVENT CODES	6				
1 = Unable to b	ring on trip				
2 = Error Messa	age				
3 = Unable to c	alibrate				
4 = Damaged/lo	ost				
5 = Unable to e	stablish samplin	ig station			
6 = Other					

				OBS/TRIP ID	A99101-
				DATE LANDED mm/yy	10 [/] 16
				PAGE #	2 ^{of} 2
DAILY TEST	ſS				
DATE	FIT VALUE	CALIBRATION WEIGHT	COMMENTS		
(mm/dd/yy)		(must be 11.00 - 11.05 to use)			
10 /23 /16	6	<u>1 1 0 0</u>			
10 /24 /16	2	<u>1 1 0 0</u>			
10 <i>j</i> 25 <i>j</i> 16	3	<u>1 1 0 0</u>			
10 /26 /16	4	<u>1 1 0 0</u>			
		··			
/ /		·			
/ /		·			
		·			
/ /		·			
/ /		·			

#### ERROR CODES

**E-01** = AD converter failure - Restart the scale.

**E-03** = ADC over range - Reduce the weight on the platform.

**E-04** = ADC under range - Increase the weight on the platform.

**E-05** = Unstable weight (initial zero) - Stabilize scale.

**E-06** = Weight outside range (initial zero) - Make sure platform is empty.

E-08 = Operation in progress (initial zero) - Wait until completed.

**E-11** = Invalid initial zero - Remove or reduce the weight on the platform.

**E-13** = Program failure - Contact FSB staff.

**E-14** = ADC not responding - Contact FSB staff.

- E-15 = W&M setup checksum failure Contact FSB staff.
- E-23 = 24 V power voltage too high Contact FSB staff.
- E-25 = Low voltage to load cells Contact FSB staff.
- **E-50** = Parameter protection test failed Restart the scale.
- **E-81** = Fit value too high Repeat calibration.
- **E-82** = Calibration weight not detected Repeat calibration.
- **E-84** = Marine static calibration not allowed Scale requires motion.
- **E-91** = Invalid marine calibration. Fit value too high Repeat calibration.
- E-92 = Invalid marine calibration. Calibration weight not detected Repeat calibration.

**E-93** = Invalid initial zero - Make sure the platform is empty.

CONTACTS	
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# **Appendix A - Northeast Statistical Areas**











#### Chart 6a. Mid-Atlantic

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Do not use for navigation
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#### Chart 6b. Mid-Atlantic with Loran Lines



### **Appendix B – Page Numbering Instructions**

All Logs except the <u>Vessel and Trip Information Log</u> are numbered. Below is a listing of each data log used in domestic observing, and the manner in which the logs should be page numbered, with examples provided.

#### **Vessel and Trip Information Log**

These logs are not currently page numbered.

#### **Gear Characteristics Log**

These logs are numbered on a per **trip** basis in the Gillnet, Pot/Trap, Otter Trawl, Twin Trawl, Scallop Trawl, Pair Trawl/Mid-Water Trawl fisheries. The logs have two sides, each requiring a number (if used). Do not number the second side if no comments are recorded on that side.

**Example:** A NEFOP gillnet trip has 3 gears used. This would require three (3) <u>Gear Logs</u> to be filled out. The observer made additional comments on gear 1, requiring the use of the back side. The page numbering for gear 1 would be "1 of 4" and "2 of 4". Gear 2 (front only) would be page "3 of 4" and gear 3 (front only) would be "4 of 4".

#### Haul Log

These logs are numbered on a per **haul** basis in all fisheries. They are the "cover" sheet for the following other logs (listed in the order of ordering/numbering):

- Individual Animal Log
- Length Frequency Log
- <u>Crustacean Sample Log</u>
- <u>Catch Composition Log</u>
- Discard Log

**Example:** A pair trawl haul required one (1) <u>Pair and Single Mid-water Trawl Haul Log</u> to record all of the catch. A couple of sharks were caught in this haul as well, requiring one (1) <u>Individual Animal Log</u>. Finfish and crustaceans were sampled, requiring two (2) <u>Length Frequency Logs</u> and one (1) <u>Crustacean Sample Log</u>. 10 Baskets were sampled on this haul requiring one (1) <u>Catch Composition Log</u>. Additionally, information regarding the discarding events was filled in on one (1) <u>Discard Log</u>. The page numbers for the <u>Pair and Single Mid-water Trawl Haul Log</u> would be "1 of 8".

#### **Individual Animal Log**

These logs are numbered on a per **haul** basis in all fisheries. They always immediately follow a corresponding <u>Haul Log</u>, so they may never have a page number lower than "2 of ...".

Example: In the Haul Log example above, the one Individual Animal Log page number would be "2 of 8".

**Example:** A gillnet haul required one (1) Haul Log to record all of the haul specific information and ten (10) <u>Individual</u> <u>Animal Logs</u> to sample all of the pelagic species caught in this haul. The page numbers for the <u>Individual Animal Logs</u> would be "2 of 11", "3 of 11", "4 of 11", etc.

#### **Length Frequency Log**

These logs are numbered on a per **haul** basis. They should always follow a corresponding Haul Log and any <u>Individual</u> <u>Animal Logs</u> (if any), so they may never have a page number lower than "2 of ..."

Example: In the Haul Log example above, the Length Frequency Log page numbers would be "3 of 8", and "4 of 8".

**Example:** An otter trawl trip haul sampled eight different species of finfish, requiring three (3) <u>Length Frequency Logs</u> to record all of the length data. No pelagic species or crustaceans were caught in this haul. The page numbers for these logs would be "2 of 4", "3 of 4" and "4 of 4".

#### **Crustacean Sample Log**

These logs are numbered on a per **haul** basis. They always follow a corresponding Haul Log and any <u>Individual Animal</u> <u>Logs</u> and/or <u>Length Frequency Logs</u> (if any), so they may never have a page number lower than "2 of ...".

Example: In the Haul Log example above, the Crustacean Sample Log page numbers would be "5 of 8".

**Example:** A lobster trip haul sampled 175 lobsters, requiring four (4) of these logs. No pelagic species or finfish were caught in this haul. The page numbers for these logs would be "2 of 5", "3 of 5", "4 of 5" and "5 of 5".

#### **Catch Composition Log**

These logs are numbered on a per **haul** basis. The log has two sides, each requiring a number. They always follow a corresponding Haul Log and any <u>Individual Animal Logs</u> (if any), <u>Length Frequency Logs</u> (if any) and <u>Crustacean Sample Logs</u> (if any) so they may never have a page number lower than "2 of ...".

**Example:** In the Haul Log example above, the <u>Catch Composition Log</u> page numbers would be "6 of 8" and "7 of 8".

**Example:** A purse seine trip haul sampled 10 baskets of fish requiring one (1) of these logs. No pelagic species were caught and no fish or crustaceans were sampled. The page numbers for these logs would be "2 of 3" and "3 of 3".

#### **Discard Log**

These logs are numbered on a per **haul** basis. They should follow a corresponding Haul Log and any <u>Individual Animal</u> <u>Logs</u> (if any), <u>Length Frequency Log</u> (if any) and <u>Crustacean Sample Logs</u> (if any), and <u>Catch Composition Logs</u> (if any) so they may never have a page number lower than "2 of ...".

Example: In the Haul Log example above, the Discard Log page number would be "8 of 8".

#### Scallop Dredge, Scallop Trawl, Clam/Quahog Dredge Off-watch Haul Log

These logs are numbered on a per **trip** basis.

**Example:** A scallop trip required three (3) of these logs to record all of the off-watch periods. The page numbers would be "1 of 3", "2 of 3", and "3 of 3". These logs should be included at the end of the trip.

#### **Protected Species Sighting Log**

These logs are numbered on a per **trip** basis. Comment pages, located on the back side of the log, always directly follow and are numbered after the corresponding log page.

**Example:** A trip required four (4) of these logs (comment pages included). The page numbers would be "1 of 4" (log), "2 of 4" (comment page), "3 of 4" (possibly another comment page or a new log), etc.

#### **Incidental Take Log**

These logs are numbered on a per **trip** basis. The log has two sides, each requiring a number.

**Example:** A trip of 20 incidental takes require two (2) logs to record them all. The page numbers for these logs would be "1 of 4 (front)", "2 of 4 (back)", "3 of 4 (front)", and "4 of 4 (back)".

#### Marine Mammal Biological Sample Log

These logs are numbered on a per **trip** basis. The log has two sides, each requiring a number.

**Example:** In the trip above of twenty incidental takes, two (2) logs are needed to record all of the information. The first animal was a bottlenose dolphin for which additional measurements were recorded on the back side of the first <u>Marine Mammal Biological Sample Log</u>. The page numbers would be "1 of 3" (front), "2 of 3" (back side of first page) and "3 of 3" (front side of second log).

#### Sea Turtle Biological Sample Log

These logs are numbered on a per trip basis. The log has two sides, each requiring a number.

**Example:** A trip caught 11 sea turtles, requiring two (2) logs to record all of the information. Sketches were drawn for five of the turtles recorded on the first page, necessitating the use of the back side of the first log. The page numbers would be recorded as "1 of 3" (front of first page), "2 of 3" (back side of first page) and "3 of 3" (front of second page).

#### **Fishermen's Comment Log**

These logs are numbered on a per **trip** basis. The log has two sides, each requiring a number.

**Example:** A captain requests to use these logs for two different event dates. On the first log the captain uses both the front and the back. On the second log the captain only fills in the front of the log. The page numbers for these logs would be "1 of 3", "2 of 3" and "3 of 3". The back side of the second log would be left blank.

# **Appendix C – Set/Haul Time Definitions**

#### Gillnet

Set Begin: First component of gillnet gear deployed.
Set End: Gillnet secured to anchoring device or completely deployed.
Haul Begin: Hauling equipment put into gear or retrieval of gear commences.
Haul End: Gillnet gear completely retrieved and aboard vessel.

#### **Beach Seine**

**Haul Begin**: Time that gear hauling (retrieving) begins, whether it is the warp line or the actual net **Haul End**: Time that the last piece of the gear is pulled up onto the beach.

#### Pelagic or Demersal Longline

Set Begin: First component of gear deployed.
Set End: Gear secured to high flyer or anchoring device, or gear completely deployed.
Haul Begin: Hauling equipment put into gear or retrieval of gear commences.
Haul End: Gear completely retrieved and aboard vessel.

### **Rod and Reel or Other Line Gears**

Set Begin: First component of gear deployed.
Set End: Do not record set end information for handline gears.
Haul Begin: Do not record haul begin information for handline gears.
Haul End: Gear is removed from the water and fishing activity ceases. The end of the haul occurs when there is a significant break in time and/or a significant change in location.

#### Lobster, Crab, and Fish Pot

Set Begin: First component of lobster, crab, or fish pot gear deployed, i.e. high flyer and/or anchor hits the water.
Set End: Trawl secured to anchoring device, i.e. trawl completely deployed.
Haul Begin: Hauling equipment put into gear.
Haul End: Lobster, crab, and fish pot gear completely retrieved and aboard vessel.

### Bottom Trawl, Twin Trawl, Scallop Trawl

Haul Begin: First component of net deployed, i.e. net hits the water.Haul End: Hauling equipment put into gear with the intention of hauling back.Fishing Begin: Gear is fully deployed and actively fishing (this may be when the brakes are put on).Gear Onboard: Gear from this haul is completely out of the water.

#### Single Mid-water Trawl Fishery

Haul Begin: First component of net deployed, i.e. net hits the water.
Haul End: When the hauling equipment is put into gear with intention to haul back.
Fishing Begin: Gear is fully deployed and actively fishing (this may be when the brakes are put on).
Gear Onboard: Gear from this haul is completely out of the water.

#### **Pair Trawl Fishery**

#### Haul Begin:

<u>Vessel that deployed net:</u> First component of net deployed, i.e. net hits the water.

Vessel that did not deploy net: When the warp (towing cable) is passed to your vessel.

Haul End: Net retrieved to the surface, i.e., warps retrieved and aboard both vessels.

Fishing Begin: Gear is fully deployed and actively fishing (this may be when the brakes are put on).

Gear Onboard: Fill in date but leave time blank or dash if you are not on the vessel that brings the net onboard.

#### **Purse Seine**

**Set Begin**: When the skiff, highflyer, or sea anchor hits the water with intention to set the net. **Set End**: All purse rings (metal rings) are cinched and alongside or onboard the vessel.

#### **Scallop Dredge**

Haul Begin: First component of dredge(s) deployed, i.e., dredge(s) hit the water.Haul End: Hauling equipment put into gear with the intention of hauling back.Fishing Begin: Gear is fully deployed and actively fishing (this may be when the brakes are put on).Gear Onboard: Gear from this haul is completely out of the water.

#### **Clam/Quahog Dredge**

**Haul Begin**: First component of dredge deployed, i.e., dredge hits the water. **Haul End**: Hauling equipment put into gear.

**Fishing Begin**: Gear is fully deployed and actively fishing (this may be when the brakes are put on). **Gear Onboard**: Gear from this haul is completely out of the water.

Nautical Units	Mass	24 Hour Clock
1 fathom = 6 feet	1 pound = 453.59 grams	12:00 Midnight = 0000
1 fathom = 1.83 meters	1 pound = 0.45 kilograms	1:00 a.m. = 0100
1 nautical mile = 6076 feet	1 kilogram = 2.20 pounds	2:00 a.m. = 0200
1 nautical mile = 1852 meters	1 standard ton = 2000 pounds	3:00 a.m. = 0300
1 nautical mile = 1.15 statute miles	1 metric ton = 2204.60 pounds	4:00 a.m. = 0400
1 knot = 1 nautical mile/hour	1 metric ton = 1000 kilograms	5:00 a.m. = 0500
Length	Metric Units	6:00 a.m. = 0600
1 inch = 2.54 centimeters	1 meter = 100 centimeters	7:00 a.m. = 0700
1 foot = 30.48 centimeters	1 kilogram = 1000 grams	8:00 a.m. = 0800
1 foot = 0.30 meters	1 liter = 1000 milliliters	9:00 a.m. = 0900
1 yard = 3 feet	mega = 1,000,000	10:00 a.m. = 1000
1 meter = 3.28 feet	kilo = 1,000	11:00 a.m. = 1100
1 meter = 39.37 inches	deca = 10	12:00 noon = 1200
1 statute mile = 5280 feet	deci = 0.1 (tenth)	1:00 p.m. = 1300
1 statute mile = 1.61 kilometers	centi = 0.01 (hundredth)	2:00 p.m. = 1400
1 kilometer = 0.62 statue mile	milli = 0.001 (thousandth)	3:00 p.m. = 1500
Seconds to Tenths of Minutes or	Circular Measure	4:00 p.m. = 1600
Minutes to Tenths of Hours		5:00 p.m. = 1700
0-2 seconds = 0.0 minutes	60 seconds = 1 minute	6:00 p.m. = 1800
3-8 seconds = 0.1 minutes	60 minutes = 1 degree	7:00 p.m. = 1900
9-14 seconds = 0.2 minutes	90 degrees = 1 quadrant	8:00 p.m. = 2000
15-20 seconds = 0.3 minutes	Volume	9:00 p.m. = 2100
21-26 seconds = 0.4 minutes	1 liter = 1.05 quarts	10:00 p.m. = 2200
27-32 seconds = 0.5 minutes	1 liter = 0.26 gallons	11:00 p.m. = 2300
33-38 seconds = 0.6 minutes	1 gallon = 3.78 liters	
39-44 seconds = 0.7 minutes		
45-50 seconds = 0.8 minutes		
51-56 seconds = 0.9 minutes		
57-59 seconds = 1.0 minutes		

# **Appendix D – Conversion Tables**

Gillnet I	Monofilamer	nt		Pelagic Drift Gillnet Twisted Nylon					
Twine Size	Diameter (mm)	Old Size		Twine Size	Deniers	Breaking Strength (lbs)	# Feet/lb		
3	0.28	69		9	24	84	2250		
4	0.33	104		12	30	105	1824		
6	0.40	139		15	36	125	1550		
7	0.45	-		18	48	160	1152		
8	0.47	177		21	60	217	860		
10	0.52	208		24	72	242	740		
12	0.57	277		30	84	297	625		
14	0.62	-		36	96	336	520		
16	0.66	-		42	108	365	470		
18	0.70	-		54	144	460	360		
20	0.74	-		60	168	552	305		
24	0.81	-		72	192	601	270		
30	0.90	-		84	228	765	220		
40	1.05	-		96	276	905	177		
				120	336	1090	135		
General	Twine Size	Codes: C	000 =	Unknow	n, 998 = Co	mbination			

### **LORAN Station Codes**

LORAN	First digit
Station	will be
W	1xxxx
Х	2xxxx
Y	4xxxx
Z	бхххх

Trip Extension	Description					
А	Aborted (non-gillnet)					
С	Gillnet, complete fish sampling					
D	Gillnet, complete fish sampling, aborted					
E	Gillnet, set only, complete					
L	Gillnet, limited fish sampling					
М	Gillnet, limited fish sampling, aborted					
N	Gillnet, set only, limited					
Т	Transit, no product onboard, no intent to fish					
U	Transit, product onboard, no intent to fish					
-	All other trips					

### Appendix E – Trip Extensions

If your trip sails in December but lands on or after January 1st, it should be assigned Trip Number "001", since it is the first trip to land in the new calendar year.

**Example:** Observer Green, who has been assigned identifier A02, is on her third trip of the calendar year, and it is a limited fish sampling gillnet trip. The observer/trip identifier is recorded as A02003L.

<u>Aborted Trips</u>: Defined as when the gear is not used (set, hauled, or washed) regardless of time on the water. An aborted trip is considered to be a unique trip and should be numbered accordingly.

<u>Set Only Trips (ASM and NEFOP)</u>: The observer is onboard for only the setting of gear. No gear is hauled, therefore no catch is retained. Do not complete any gear or haul logs. Set Only trips are **not** considered aborted trips.

<u>Complete Fish Sampling Trips (ASM and NFEOP)</u>: The observer will record complete catch data, i.e. both kept and discarded information, for all hauls on "complete fish sampling" gillnet trips. All hauls on these trips will be recorded as observed, and all kept and discarded catch recorded. In addition, biological sampling of the entire catch will occur after *every haul*, with an emphasis placed on sampling discarded species.

<u>Limited Fish Sampling Trips (NEFOP only)</u>: The observer will record only the kept catch for all hauls on "limited fish sampling" gillnet trips. All hauls on these trips will be recorded as unobserved as the observer will conduct protected species haul watches. In addition, biological sampling of the kept catch will occur after the *last haul only*.

Program Code	Description	
000	Standard Sea Sampling Trips	
010*	Training Trips	
020	Alternative Platform	
030	Mid-Atlantic Sea Turtle Trips	
040	Social Sciences	
044	NY State Observer Coverage	
045	Herring Groundfish Closed Area	
101	Pinger Tester Trips	
102	Scallop Trip With Chain Turtle Excluders	
130	US/Canada Management Area	
150	Regular B-DAS Program	
160	Research - No Kept Fish	
170	Small Mesh Redfish Exemption	
171	SNE Monkfish ASM Exemption	
201	Scallop Access Area, Nantucket Lightship	
202	Scallop Access Area, Closed Area I	
203	Scallop Access Area, Closed Area II	
204	Scallop Access Area, Hudson Canyon	
205	Scallop Access Area, VA Beach	
206	Scallop Access Area, Elephant Trunk	
207	Scallop Access Area, Delmarva	
208	Scallop Access Area, Mid-Atlantic	
230	At-Sea Monitor (ASM)	
231	At-Sea Monitor, US/Canada Management Area	
232	At-Sea Monitor, Regular B-DAS Program	
233	At-Sea Monitor, CA I Haddock Hook SAP	
234	At-Sea Monitor, CA II Yellowtail Flounder/Haddock SAP	
235	At-Sea Monitor, Small Mesh Redfish Exemption	

### **Appendix F – Program Codes**

*All other program codes *except* "000" supersede this program code, including ASM program codes. Be sure to record "Training Trip" in the COMMENTS section.

# **Appendix G – Sector and Fleet Codes**

Sector Code	Description
002	Common Pool - Groundfish
003	GB Cod Fixed Gear Sector
005	Sustainable Harvest Sector 1
006	Maine Coast Community Sector
007	Northeast Fishery Sector VII
008	Northeast Fishery Sector IV
009	Northeast Fishery Sector VIII
010	Northeast Fishery Sector XI
012	Northeast Fishery Sector II
013	Northeast Fishery Sector III
014	Northeast Fishery Sector I
015	Northeast Fishery Sector X
016	Northeast Fishery Sector XIII
017	Northeast Fishery Sector IX
018	Northeast Fishery Sector V
020	Northeast Fishery Sector VI
021	Northeast Coastal Communities Sector
022	Sustainable Harvest Sector 3
999	Other, comment

#### **Appendix G1 – Sector ID Codes**

#### Appendix G2 – Fleet Codes

Fleet Code	Description
000*	Standard Observer Trip
046	Limited Access Scallop Trip
047	General Category Scallop Trip
049	Processor Vessel
050	Carrier Vessel
999	Other, comment

*Record "000" if trip does not fit any other code listed

Vendor ID Code	Description	
00	Unknown	
02	A.I.S. Inc, Industry Funded	
04	East West Technical Services, Industry Funded	
06	FSB Personnel	
07	A.I.S. Inc, NMFS ASM Funded	
08	East West Technical Services, NMFS ASM Funded	
09	MRAG Americas, NMFS ASM Funded	
11	A.I.S. Inc, Industry ASM Funded	
12	East West Technical Services, Industry ASM Funded	
13	MRAG Americas, Industry ASM Funded	
16	Fathom Research LLC, Industry Funded	
17	MRAG Americas, NMFS Funded	
18	Fathom Research LLC, Industry ASM Funded	

# **Appendix H – Vendor ID Codes**

If any additional Observer Service Providers are approved in the future, new codes will be added.

Gear Code	Description	
353	Beam Trawl, Fish	
350	Beam Trawl, Other/NK Species	
352	Beam Trawl, Scallop	
386	Dredge, Clam, Hydraulic	
383	Dredge, Crab	
381	Dredge, Other/NK Species	
132	Dredge, Scallop, Sea	
320	Fyke Net, Other/NK Species	
105	Gill Net, Anchored-Floating, Fish	
116	Gill Net, Drift-Floating, Fish	
117	Gill Net, Drift-Sink, Fish	
100	Gill Net, Fixed Or Anchored, Sink, Other/NK Species	
102	Gill Net, Stake, Other	
020	Handline (Rod & Reel)	
021	Handline, Auto Jig	
030	Harpoon, Other/NK Species	
031	Harpoon, Swordfish	
070	Haul Seine, Beach, Common	
010	Longline, Bottom	
040	Longline, Pelagic	
200	Pot/Trap, Lobster Offshore NK	
301	Pots + Traps. Blue Crab	
183	Pots + Traps, Conch	
300	Pots + Traps, Crab Other	
181	Pots + Traps, Fish	
186	Pots + Traps, Hagfish	
180	Pots + Traps, Other/NK Species	
190	Pots + Traps, Shrimp	
142	Pound Net, Fish	
121	Purse Seine, Herring	
122	Purse Seine, Mackerel	
123	Purse Seine, Menhaden	
120	Purse Seine, Other/NK Species	
124	Purse Seine, Tuna	
360	Scottish Seine	
050	Trawl, Otter, Bottom, Fish	
057	Trawl, Otter, Bottom, Haddock Separator	
150	Trawl, Otter, Bottom, Large Mesh Belly Panel	
054	Trawl, Otter, Bottom, Ruhle	
052	Trawl, Otter, Bottom, Scallop	
058	Trawl, Otter, Bottom, Shrimp	
053	Trawl, Otter, Bottom, Twin	
370	Trawl, Otter, Midwater	
170	Trawl, Otter, Midwater Paired	
060	Troll Line, Other/NK Species	

# **Appendix I – Gear Codes**

Time Lost Code	Description	
00	Unknown	
01	Gear Conflict With Another Vessel	
02	Gear Damage Repair	
03	Engine Repair	
04	Awaiting Arrival Of Other Vessel	
05	Coast Guard Boarding	
06	Medical Emergency	
07	Weather Conditions	
08	Marine Mammal Interaction	
09	Gear Loss	
99	Other, comment	

# Appendix J – Time Lost Codes

# **Appendix K – Weather Codes**

Used on all Haul Logs and the Protected Species Sighting Log.

Weather Code	Description	
00	Unknown	
01	Clear	
02	Partly Cloudy	
03	Continuous layers of clouds	
04	Drizzle	
05	Rain	
06	Showers	
07	Thunderstorms	
08	Rain and fog	
09	Fog or thick haze	
10	Snow, or rain and snow mixed	
11	Blowing snow	
99	Other, comment	

# Appendix L - Gear Condition Codes

Used on all Haul Logs, with specific codes for each fishery.

#### Bottom Trawl, Pair and Single Mid-water Trawl, Scallop Trawl, and Twin Trawl

- 010 = No gear damage, or very few small, scattered holes.
- 020 = Wings twisted or torn, not exceeding 50% of meshes.
- 030 = Wings twisted or torn, exceeding 50% of meshes.
- 040 = Square and/or bosom torn, not exceeding 50% of meshes.
- 050 = Square and/or bosom torn, exceeding 50% of meshes.
- 060 = Belly torn, not exceeding 50% of meshes.
- 070 = Belly torn, exceeding 50% of meshes.
- 080 = Codend and/or extension piece torn, not exceeding 10% of meshes.
- 090 = Codend and/or extension piece torn, exceeding 10% of meshes.
- 100 = Hang-up, causing gear to be hauled back before scheduled time; minor damage.
- 110 = Parted legs, sweep or head rope.
- 120 = Tear up exceeding gear condition of code 02, but not total net destruction.
- 130 = Obstruction in the gear, such as a large amount of fixed gear, boulders, etc.
- 140 = Crossed doors.
- 150 = Open codend.
- 160 = Major hang-up or tear-up, or loss of gear.
- 170 = Grate clogged with fish or debris.

#### **Gillnet and Beach Seine**

- 210 = No gear damage, or very few small, scattered holes.
- 220 = Small number of torn meshes, not exceeding 25% of any one net, each net may be torn slightly.
- 230 = Less than 50% of the nets have less than 50% of the meshes torn.
- 240 = 50% or more of the nets have less than 50% of the meshes torn.
- 250 = Less than 50% of the nets are obstructed by a large object.
- 260 = 50% or more of the nets are obstructed by a large object.
- 270 = Less than 50% of the nets have 50% or more of the meshes torn.
- 280 = 50% or more of the nets have 50% or more of the meshes torn.
- 290 = Nets in the string totally balled up.

#### Lobster, Crab, and Fish Pot

- 410 = No gear damage.
- 420 = Less than 25% of the pots have enough damage to allow the target species to be released. This damage includes loss of the escape panel.
- 430 = Between 25% and 50% of the pots have enough damage to allow the target species to be released.
- 440 = Greater than 50% of the pots have enough damage to allow the target species to be released.
- 450 = Less than 25% of the pots are un-fishable.
- 460 = Between 25% and 50% of the pots are un-fishable.
- 470 = Greater than 50% of the pots are un-fishable.

#### **Purse Seine**

- 510 = No or insignificant gear damage.
- 520 = Minor wrap of wire around gear.
- 530 = Major wrap of wire around gear.
- 540 = Minor tear-ups of net, not exceeding total of 5% of the net.
- 550 = Tear-up exceeding code 54, but not total, net destruction.
- 580 = Total net destruction.

#### Longline

610 = No gear damage, or only a few hooks missing.

- 620 = Less than 50% of gear fouled, e.g., weather/oceanic conditions caused the gear to become tangled, or otherwise lowered the fishability of the gear.
- 630 = Greater than 50% of gear fouled, e.g., weather/oceanic conditions caused the gear to become tangled, or otherwise lowered the fishability of the gear.
- 640 = Less than 50% of hooks missing.
- 650 = Greater than 50% of hooks missing.
- 660 = Parted off, no damage.
- 670 = Parted off, less than 50% of gear damaged.
- 680 = Gear completely damaged, or completely lost.

#### **Scallop Dredge**

710 = No gear damage or insignificant gear damage.

- 711 = Hang-up, causing gear to be hauled back before scheduled time; minor damage.
- 712 = Chains (rock, tickler, sweep) detached.
- 713 = Twine top torn but was able to be repaired.
- 714 = Twine top torn completely and had to be replaced.
- 715 = One dredge fished on top of the other dredge (Rider on dredge).
- 716 = Hydraulic issue (e.g., hose leak or blown, winch broken).
- 717 = Obstruction in the gear, such as large amount of fixed gear, boulders, etc.
- 720 = Chain bag broken, partially detached or lost.
- 730 = Several rings destroyed.
- 740 = Club stick caught in twine top, chains or chain bag. Club stick detached from chain bag.
- 750 = One dredge turned over.
- 760 = Two dredges turned over.
- 770 = Dredges crossed.
- 780 = One dredge lost or totally damaged.
- 790 = Two dredges lost or totally damaged.

#### **Clam/Quahog Dredge**

- 810 = No gear damage, or insignificant gear damage.
- 820 = Dredge turned over.
- 830 = Towline fouled around hose.
- 840 = Bag split.
- 850 = Bottom of dredge fractured.
- 860 = Bent knife frame.
- 870 = Broken knife frame.
- 880 = Broken knife/blade.
- 890 = Dredge lost.

#### All Gear Types

000 = Unknown. Explain in COMMENTS. 990 = Other. Specify in COMMENTS.

# **Appendix M – Fish Disposition Codes**

Used on all <u>Haul Logs</u>, the <u>Length Frequency Log</u>, and the <u>Individual Animal Log</u>. Disposition codes should be decided after consultation with the captain. Do not assume disposition codes, even if you have recently observed on this vessel, gear, fishery, etc. At a minimum, obtain the disposition category (e.g., regulations vs market) and record with the "reason not specified" for that category.

If more than one discard reason applies to a discarded species, separate the species onto two or more lines, and record the appropriate weights and discard reasons for each. However, if there is one overriding reason for the discard of all animals of a species group, do not attempt to break this group into smaller discard reason groups.

**Example:** Captain said all Atlantic wolffish caught are discarded because "Regulations prohibit any retention (including no permit)" (025). Therefore, any undersized wolffish on this trip are still recorded as disposition 025.

**Exception**: American lobster should be categorized into specific disposition codes, with the following priority: size (012/013), with eggs (024), v-notched (022), soft-shelled (023), shell disease (037), any other regulatory/market reason.

#### Market

- 001 = No market, reason not specified.
- 002 = No market, too small.
- 003 = No market, too large.
- 004 = No market, quota filled.
- 005 = No market, won't keep until trip end.
- 006 = No market, but retained by vessel for alternate program.
- 007 = No market, but retained by observer for science purposes. The animal is discarded by the vessel, but retained whole by the observer for species identification, training, etc. Record the weight of the retained animal(s) separate from any other catch of this species.
- 008 = No market, brought onboard only for the purpose of observer sampling.

#### Regulations

- 011 = Regulations prohibit retention, reason not specified.
- 012 = Regulations prohibit retention, too small.
- 013 = Regulations prohibit retention, too large.
- 014 = Regulations prohibit retention, quota filled.
- 015 = Regulations prohibit retention, no quota in area (seasonal closure).
- 022 = Regulations prohibit retention, v-notched.
- 023 = Regulations prohibit retention, soft-shelled.
- 024 = Regulations prohibit retention, with eggs.
- 025 = Regulations prohibit any retention (including no permit).

#### Quality

- 030 = Poor quality, grey meat and/or parasites observed.
- 031 = Poor quality, reason not specified.
- 032 = Poor quality, due to sandflea damage.
- 033 = Poor quality, due to seal damage.
- 034 = Poor quality, due to shark damage.
- 035 = Poor quality, due to cetacean damage.

- 036 = Poor quality, due to hagfish damage.
- 037 = Poor quality, due to shell disease.
- 038 = Poor quality, due to gear damage.
- 039 = Poor quality, previously discarded fish. Record the species name as "Fish NK", record "U" in the dressed/round field, and describe the species/parts in comments (e.g., "fish nk = monkfish heads").

#### **Not Brought Onboard**

- 040 = Not brought onboard, operational discards.
- 041 = Not brought onboard, reason not specified.
- 042 = Not brought onboard, gear damage prevented capture.
- 043 = Not brought onboard, fell out/off of gear.
- 044 = Not brought onboard, considered to have no market value.
- 045 = Not brought onboard, safety reason.
- 046 = Not brought onboard, mechanical failure.
- 047 = Not brought onboard, spiny dogfish clogging pump.
- 048 = Not brought onboard, vessel capacity filled.
- 049 = Not brought onboard, not enough fish to pump aboard.
- 070 = Not brought onboard, quality of fish.
- 071 = Not brought onboard, clogged pump, other.

#### **Debris/Shells**

053 = Debris. Includes all single or disarticulated bones.

054 = Empty shells.

#### **Upgrading/Market Driven Selectivity**

- 062 = Upgraded. If a fish is "upgraded" or "high graded," and a previously kept fish is discarded and replaced with one that is larger (or of higher quality/value), record the discarded animal(s) and weight discarded on the Haul Log corresponding to the haul in which the animal(s) was (were) originally caught, and code it 062 for fish disposition. Be sure to subtract the weight of the animal(s) from the original kept record. Upgrading may result in dressed discard weights.
- 063 = Vessel retaining only certain size for best price due to trip quota in effect.
- 064 = Vessel retaining only certain size for best price due to price differential.

#### Kept

Kept is defined as brought on board the vessel and retained until the vessel has landed. Fish that may be discarded by the dealer should still be recorded as "kept".

- 100 = Kept, general.
- 110 = Kept, transferred to another vessel. Record the name and hull number of the vessel to which the catch is transferred. Typically used in the pair trawl fishery when there is no observer on the other boat.
- 170 = Kept, used for bait.
- 171 = Kept, consumed by captain/crew.
- 172 = Kept, regulations prohibit discards at sea.

#### General

These codes should not be used frequently. Always provide a comment explaining why a generic code was used.

- 000 = Discarded, reason unknown.
- 099 = Discarded other, record the discard reason in COMMENTS.
- 900 = Unknown.

# **Appendix N – Estimation Method Codes**

Used on all Haul Logs, the Length Frequency Log, and the Individual Animal Log.

Estimation Method Code	Description
00	Unknown
01	Actual, Spring Scale
02	Volume To Volume
03	Basket/Tote Count
04	Estimated By Captain
05	Tally
06	Visually Estimated
07	Cumulative Sum Method
10	Catch Composition Log Extrapolation
11	Actual, Electronic (Marel) Scale
12	Trap Subsample
13	Count To Count
14	Weight To Weight
98	Combination, comment
99	Other, comment

See the <u>Catch Estimation</u> section of the <u>FSB Observer Operations Manual</u> for more information on estimation methods.

# Appendix O – Net Name, Type, and Builder Codes

Used on all Trawl Gear Characteristics Logs.

# Appendix 01 - Net Name Codes

Net Name Code	Description
00	Unknown
01	Trouser Trawl
02	Beam Trawl
03	Twin Trawl
04	Bottom Trawl
05	Semi-Pelagic Trawl
06	Pelagic Trawl
99	Other, comment

### Appendix O2 – Net Type Codes

Net Type Code		Code	
2-Seam	4-Seam	Seams Unknown	Description
89	90	88	Balloon Trawl
	24		Box Trawl
31	30	32	Eliminator Trawl
11	12	10	Flatfish Trawl
13			Flounder Trawl
01	02	08	Flynet
86	87	85	Groundfish Trawl
03	04	09	Haddock Separator Trawl
	17		Mid-Size Ruhle Trawl
	18		Millionaire Trawl
66	67	65	Monkfish Trawl
76	77	75	Pelagic Pair Trawl
74	78	73	Pelagic Single Trawl
21	22	20	Raised Footrope Trawl
	15		Ruhle Trawl
	16		Rope Separator Trawl
61	62	60	Scallop Trawl
06	07	05	Separator Trawl
26	27	25	Shrimp Trawl
81	82	80	Shuman Trawl
71	72	70	Sweepless Trawl
91	92	00	Unknown Trawl
	99		Other, comment

Net Builder Code	Description
00	Unknown
01	Custom Built
02	Le Drezen
03	Levine Marine Supply
04	Noreastern Trawl Systems, Ltd.
05	Smart Net Systems, Ltd.
06	Swan Net Gundry
07	Wanchese Trawl Supply
08	Wilcox Trawls
09	Superior Trawl
10	Trawlworks, Inc.
11	Dantrawl
12	Reidar's Manufacturing, Inc.
13	Christiansen's Nets
14	Jeff Flagg
15	Shumann
16	Yankee
17	IMP Group
18	Veidarfaer
19	Gearwork
20	VT Fishing Gear Supplies
21	Jamestown Trawl
22	K.T. Nets
99	Other, comment

# Appendix O3 – Net Builder Codes

### **Appendix P – Bait Codes**

Used on Longline Haul Log and Lobster, Crab, and Fish Pot Haul Log.

iipp.	
Bait Kind Code	Description
00	Unknown
01	Mackerel
02	Herring
03	Squid
04	Artificial, including lures and jigs
05	Redfish
06	Sardine
07	Scad
08	Skate
09	Clams
10	Fish with binders/casings
11	Eel
12	Menhaden
13	Tuna
97	Mixed, comment
99	Other, comment

#### **Appendix P1 - Bait Kind Codes**

Mixed (97) means multiple kinds but not differentiated by the captain (e.g., mixture of groundfish remains from a processing facility).

If artificial bait kind (04), dash the fields for bait pounds, type, and condition.

#### **Appendix P2 - Bait Type Codes**

Bait Type Code	Description
0	Unknown
1	Whole
2	Cut (e.g., fish racks, frames, or bellies)
3	Live
4	Processed (e.g., remains pressed into sausage)
9	Other, comment

#### **Appendix P3 – Bait Condition Codes**

Bait Condition Code	Description
0	Unknown
1	Previously frozen
2	Fresh
3	Salted
6	Frozen
7	Semi-Frozen
8	Combination, comment
9	Other, comment

# Appendix Q - Entanglement Codes

Used on Marine Mammal, Sea Turtle, and Seabird Incidental Take Log.

- 01 = Fell from gear at a point unknown, i.e., the animal fell from the gear, but the time during haulback when this occurred is unknown.
- 02 = Fell from gear before exiting water, i.e., the animal was still under water when it fell from the gear.
- 03 = Fell from gear once hauled out of the water, i.e., the animal was mostly/completely out of the water when it fell from the gear because the weight and pulling action of the net caused the animal to fall from the gear.
- 04 = Fell from gear due to force of roller, i.e., the animal reached the haulback roller and the roller's force caused it to fall from the gear.
- 05 = Removal requires cutting of gear/animal, i.e., the gear and/or the animal is cut in order to remove the animal from the gear.
- 06 = Removal does NOT require cutting of gear/animal, i.e., pulling, unwrapping, unrolling, and/or detangling the gear allows the animal to be removed from the gear, without cutting the gear and/or the animal.
- 08 = Caught in wings of trawl net.
- 10 = *Seabird* caught, gangion attached to mainline.
- 11 = Seabird caught, gangion unattached to mainline.
- 12 = Hooked, ingested.
- 13 = Hooked, beak.
- 14 = Hooked, head.
- 15 = Hooked, flipper.
- 16 = Hooked, carapace.
- 17 = Hooked, other/unknown, describe the hooked entanglement situation in COMMENTS.
- 18 = Caught inside dredge chain bag.
- 19 = On top of dredge or dredge frame.
- 20 = Caught in dredge frame or in between bales.
- 21 = Caught inside dredge in twine top.
- 22 = Caught on sweep/tickler/rock chains.
- 23 = Caught in bridles/cables/warp.
- 24 = Inside mouth of trawl net.
- 25 = Inside belly of trawl net.
- 26 = Inside codend of trawl net.
- 27 = Caught in sweep or footrope of trawl net.
- 28 = Contact with vessel or vessel equipment other than fishing gear.
- 29 = Entangled in gear other than vessel's fishing gear (e.g., ghost gear caught by vessel)
- 30 = Caught in the catch pump
- 31 = Entrapped/caught in bunt of purse seine
- 32 = Entrapped/caught in net/wing of purse seine
- 33 = Caught in Buoyline
- 99 = Other, describe the entanglement situation in COMMENTS.

If more than one code applies, choose the code that describes the **primary entanglement/interaction**.

^{00 =} Unknown.
## **Appendix R – Animal Condition Codes**

Used on Marine Mammal, Sea Turtle, and Seabird Incidental Take Log and Protected Species Sighting Log.

- 00 = Unknown, explain why you cannot identify the animal condition in COMMENTS.
- 01 = Alive, see COMMENTS.
- 04= Alive, hook/gear in/around mouth, attempt to determine where in the mouth the hook is, etc. and describe in COMMENTS.
- 05 = Alive, hook/gear in/around flipper, e.g., hook in the flipper or gear around the flipper, describe more fully in COMMENTS.
- 06 = Alive, hook/gear in/around another single body part, e.g., hook in the neck or plastron; specify which in COMMENTS.
- 07 = Alive, hook/gear in/around several body parts, describe more fully in COMMENTS.
- 08 = Alive, seen by captain and/or crew ONLY.
- 09 = Alive, resuscitated (turtle).
- 10 = Dead, condition unknown.
- 11 = Dead, fresh.
- 12 = Dead, moderately decomposed.
- 13 = Dead, severely decomposed.
- 14 = Dead, seen by captain and/or crew ONLY.

If more than one code applies, choose the code that describes the most specific condition of the animal

See the <u>Protected Species</u> section of the <u>FSB Observer Operations Manual</u> for more information on assigning condition codes for each animal type.

## **Appendix S – Animal Behavior Codes**

Used on Protected Species Sighting Log.

- 00 = Unknown.
- 01 = Near gear, physical contact.
- 02 = Near gear, within 50 meters.
- 03 = Near gear, within 51 to 150 meters.
- 04 = Feeding on catch.
- 05 = Porpoising: the animal(s) is (are) splashing along at the surface, breaking the surface regularly, showing most of the body.
- 06 = Bow riding: the animal(s) is (are) observed keeping pace with the vessel on the bow wave.
- 07 = Breaching: the animal(s) emerge(s) from the water and crash(es) down on a flank, back or belly.
- 08 = Swimming at surface: the animal(s) is (are) observed several times surfacing "normally", each surfacing at some irregular distance from the previous one; it (they) appear(s) to be just moving along.
- 09 = Milling: the animal(s) is (are) rolling at the surface with no direction, making short dives without moving along. Often a group activity.
- 10 = Motionless at surface (or dead).
- 11 = Vessel avoidance: the animal(s) abruptly change(s) its (their) swimming direction or behavior to avoid the vessel; a startling, alarming, fleeing reaction.
- 12 = Vessel attraction: the animal(s) change(s) its (their) swimming direction to approach the vessel, such as a pod of dolphins purposefully heading toward the vessel to bow ride.
- 99 = Other, describe the animal behavior in COMMENTS.

If the animal(s) exhibit(s) multiple behaviors, record the code for the initial behavior only, and describe all subsequent behaviors in COMMENTS. If multiple initial animal behaviors exist for one sighting, record the lowest numerical code which applies, and record the other behaviors in COMMENTS.

If there are a large number of animals (same species) that appear to be in a cohesive group, record the initial behavior of the majority of the animals. If a large number of animals (same species) appear to be in distinct groups behaving differently, record each group as a separate sighting.

## **Appendix T - Species Codes and Logs**

SPP = primarily recorded on Haul Logs; if tagged, record on Individual Animal Log.

IAL = primarily recorded on Individual Animal Log.

SPP/IAL = recorded on Individual Animal Log *except* in the gillnet fisheries.

INC = always recorded on the Marine Mammal, Sea Turtle, and Seabird Incidental Take Log.

Species Code	Common Name(s)	Scientific Name	Log
0010	ALEWIFE	Alosa pseudoharengus	SPP
6632	ALLIGATORFISH	Aspidophoroides monopterygius	SPP
0030	AMBERJACK, NK	Seriola	IAL
0060	ANCHOVY, BAY	Anchoa mitchilli	SPP
6860	ANCHOVY, NK	Engraulidae	SPP
6645	ANCHOVY, STRIPED	Anchoa hepsetus	SPP
6878	ANEMONE, NK	Anthozoa	SPP
1710	ARGENTINE, ATLANTIC	Argentina silus	SPP
0180	BARRACUDA, NK	Sphyraenidae	IAL
6627	BARRELFISH	Hyperoglyphe perciformis	SPP
4180	BASS, STRIPED	Morone saxatilis	SPP
6611	BATFISH, ATLANTIC	Dibranchus atlanticus	SPP
6610	BATFISH, NK	Ogcocephalidae	SPP
6626	BEARDFISH	Polymixia lowei	SPP
6100	BIRD, NK	Aves	INC
6629	BLENNY, NK (FISH)	Blenniidae	SPP
0230	BLUEFISH	Pomatomus saltatrix	SPP
6623	BOARFISH, DEEPBODY	Antigonia capros	SPP
6607	BOARFISH, NK	Caproidae	SPP
6624	BOARFISH, SHORTSPINE	Antigonia combatia	SPP
6883	BONE, NK		SPP
0330	BONITO, ATLANTIC	Sarda sarda	SPP/IAL
6101	BOOBY, BROWN	Sula leucogaster	INC
6102	BOOBY, MASKED	Sula dactylatra	INC
6136	BUFFLEHEAD	Bucephala albeola	INC
0511	BUTTERFISH	Peprilus triacanthus	SPP
3610	CAPELIN	Mallotus villosus	SPP
0630	CARP	Cyprinus carpio	SPP
7430	CLAM, BLOODARC	Anadara ovalis	SPP
7640	CLAM, NK	Bivalvia	SPP
7600	CLAM, RAZOR	Ensis directus	SPP
7630	CLAM, SOFT-SHELLED	Mya arenaria	SPP
7650	CLAM, STIMPSONS SURF (ARTIC)	Mactromeris polynyma	SPP
7690	CLAM, SURF	Spisula solidissima	SPP
6896	CLAPPER, CLAM		SPP
6894	CLAPPER, NK		SPP
6898	CLAPPER, OCEAN QUAHOG		SPP
6895	CLAPPER, SCALLOP		SPP
0570	СОВІА	Rachycentron canadum	IAL
0818	COD, ATLANTIC	Gadus morhua	SPP
0812	COD, ATLANTIC (CHEEKS)	Gadus morhua	SPP
6605	CODLING, METALLIC	Physiculus fulvus	SPP
6885	CORAL, SOFT, NK	Alcyonacea	SPP
6880	CORAL, STONY, NK	Scleractinia	SPP

Species Code	Common Name(s)	Scientific Name	Log
6111	CORMORANT, DOUBLE CRESTED	Phalacrocorax auritus	INC
6112	CORMORANT, GREAT	Phalacrocorax carbo	INC
6113	CORMORANT, NK	Phalacrocorax	INC
6625	CORNETFISH, BLUESPOTTED	Fistularia tabacaria	SPP
7000	CRAB. BLUE	Callinectes sapidus	SPP
7140	CRAB, CANCER, NK	Cancer	SPP
7100	CRAB. DEEP SEA. RED	Chaceon auinauedens	SPP
7101	CRAB, DEEP SEA, RED (BUTCHERED)	Chaceon guinguedens	SPP
7102	CRAB, DEEP SEA, RED (PARTIALLY PROCESSED)	Chaceon guinguedens	SPP
7080	CRAB, GREEN	Carcinus maenas	SPP
6868	CRAB, HERMIT, NK	Paguroidea	SPP
7240	CRAB, HORSESHOE	Limulus polyphemus	SPP
7110	CRAB, JONAH	Cancer borealis	SPP
7010	CRAB, LADY	Ovalipes ocellatus	SPP
6866	CRAB, NORTHERN STONE	Lithodes maja	SPP
7120	CRAB, ROCK	Cancer irroratus	SPP
7185	CRAB, SNOW	Chionoecetes opilio	SPP
6865	CRAB, SPECKLED, NK	Arenaeus cribrarius	SPP
7150	CRAB, SPIDER, NK	Majoidea	SPP
7151	CRAB, SPIDER, PORTLY	Libinia emarginata	SPP
7130	CRAB, TRUE, NK	Brachyura	SPP
0840	CRAPPIE, NK	Pomoxis	SPP
0900	CROAKER, ATLANTIC	Micropogonias undulatus	SPP
0930	CUNNER (YELLOW PERCH)	Tautogolabrus adspersus	SPP
0960	CUSK	Brosme brosme	SPP
6861	CUSK-EELS, NK	Ophidiidae	SPP
6640	CUTLASSFISH, ATLANTIC	Trichiurus lepturus	IAL
0985	DEALFISH (RIBBONFISH)	Trachipterus arcticus	SPP
6810	DEBRIS, FISHING GEAR ¹¹		SPP
6802	DEBRIS, GLASS ¹¹		SPP
6801	DEBRIS, METAL ¹¹		SPP
6800	DEBRIS, NK ¹¹		SPP
6830	DEBRIS, PLASTIC ¹¹		SPP
6805	DEBRIS, ROCK		SPP
6820	DEBRIS, WOOD ¹¹		SPP
3390	DOGFISH, BLACK	Centroscyllium fabricii	SPP
3460	DOGFISH, CHAIN	Scyliorhinus retifer	SPP
3501	DOGFISH, NK	Mustelus, Squalus	SPP
3508	DOGFISH, NK (FINS)	Mustelus, Squalus	SPP
3502	DOGFISH, NK (TAILS)	Mustelus, Squalus	SPP
3511	DOGFISH, SMOOTH	Mustelus canis	SPP
3518	DOGFISH, SMOOTH (FINS)	Mustelus canis	SPP
3512	DOGFISH, SMOOTH (TAILS)	Mustelus canis	SPP
3521	DOGFISH, SPINY	Squalus acanthias	SPP
3522	DOGFISH, SPINY (BELLYFLAPS)	Squalus acanthias	SPP
3528	DOGFISH, SPINY (FINS)	Squalus acanthias	SPP
3524	DOGFISH, SPINY (TAILS)	Squalus acanthias	SPP
6941	DOLPHIN, BOTTLENOSE	Tursiops truncatus	INC
6961	DOLPHIN, CLYMENE	Stenella clymene	INC
6940	DOLPHIN, COMMON (SADDLEBACK)	Delphinus delphis	INC

¹¹ Describe in comments.

Species Code	Common Name(s)	Scientific Name	Log
6962	DOLPHIN, FRASER'S	Lagenodelphis hosei	INC
6997	DOLPHIN, NK (MAMMAL)	Delphinidae	INC
6942	DOLPHIN, RISSO'S	Grampus griseus	INC
6957	DOLPHIN, ROUGH TOOTH	Steno bredanensis	INC
6944	DOLPHIN, SPINNER	Stenella longirostris	INC
6901	DOLPHIN, SPOTTED, ATLANTIC	Stenella frontalis	INC
6943	DOLPHIN, SPOTTED, NK	Stenella	INC
6963	DOLPHIN, SPOTTED, PANTROPICAL	Stenella attenuata	INC
6952	DOLPHIN, STRIPED	Stenella coeruleoalba	INC
6951	DOLPHIN, WHITEBEAKED	Lagenorhynchus albirostris	INC
6936	DOLPHIN, WHITESIDED	Lagenorhynchus acutus	INC
1050	DOLPHINFISH, NK (MAHI MAHI)	Coryphaena	IAL
1880	DORY, BUCKLER (JOHN)	Zenopsis conchifera	SPP
1890	DORY, NK	Zeidae	SPP
6131	DOVEKIE	Alle alle	INC
6609	DRAGONFISH, BOA	Stomias boa	SPP
1090	DRUM, BANDED	Larimus fasciatus	SPP
1060	DRUM, BLACK	Pogonias cromis	SPP
6797	DRUM, NK	Sciaenidae	SPP
1070	DRUM, RED	Sciaenops ocellatus	SPP
6892	ECHINODERM. NK	Echinodermata	SPP
1150	EEL. AMERICAN	Anauilla rostrata	SPP
1160	EEL. CONGER	Conger oceanicus	SPP
6862	EEL, GARDEN, NK	Heteroconaer	SPP
1170	FFL NK	Anguilliformes	SPP
6859	FFL, SLENDER SNIPE	Nemichthys scolonaceus	SPP
6875	EELGRASS	Zostera marina	SPP
6613	EELPOUT. NK	Lycenchelys, Lycodes sp	SPP
6858	EGGS. FLASMOBRANCH, NK		SPP
6856	EGGS, FISH, NK		SPP
6857	EGGS, MOLLUSCA, NK		SPP
6855	EGGS. NK		SPP
8018	EGGS, SOUID, ATLANTIC LONG-FIN	Dorvteuthis pealeii (eggs)	SPP
6135	FIDER, COMMON	Somateria mollissima	INC
3850	ESCOLAR	Lepidocybium flavobrunneum	IAL
6796		Monacanthidae	SPP
5260	FISH, NK	Osteichthyes	SPP
1240	FLOUNDER, AMERICAN PLAICE	Hippoglossoides platessoides	SPP
1270	FLOUNDER, FOURSPOT	Hippoglossoides oblonga	SPP
1290	FLOUNDER, GULESTREAM	Citharichthys arctifrons	SPP
6886		Bothidae	SPP
1260		Pleuronectiformes	SPP
1300	FLOUNDER SOUTHERN	Paralichthys lethostiama	SPP
1219		Paralichthys dentatus	SPP
1250	FLOUNDER, WINDOWPANE (SAND DAB)	Scophthalmus aquosus	SPP
1200	FLOUNDER, WINTER (BLACKBACK)	Pseudonleuronectes americanus	SPP
1220	FLOUNDER, WITCH (GREY SOLE)	Glyptocephalus cynoalossus	SPP
1220	FLOUNDER YELLOWTAU	Limanda ferruainea	SPP
6141	FRIGATEBIRD MAGNIFICENT	Fregata magnificens	
6161		Fulmarus alacialis	
6171	GANNET NORTHERN	Sula hassanus	
6660	GAPER RED EVE	Chaunax stiamaeus	SPP
0000		Shaanan Sugmacas	1011

Species Code	Common Name(s)	Scientific Name	Log
6152	GREBE, HORNED	Podiceps auritus	INC
6150	GREBE, NK	Podicipedidae	INC
6153	GREBE, PIED BILLED	Podilymbus podiceps	INC
6154	GREBE, RED NECKED	Podiceps grisegena	INC
6671	GRENADIER, COMMON (MARLINSPIKE)	Nezumia bairdii	SPP
6672	GRENADIER, LONG-NOSED	Caelorinchus caelorhincus	SPP
1380	GRENADIER, NK	Macrouridae	SPP
1370	GRENADIER, ROUGHEAD	Macrourus berglax	SPP
5240	GROUNDFISH, NK		SPP
1410	GROUPER, NK	Epinephelinae	IAL
1414	GROUPER, SNOWY	Hyporthodus niveatus	IAL
1440	GRUNT, NK	Haemulidae	SPP
6181	GUILLEMOT, BLACK	Cepphus grylle	INC
6201	GULL, BLACK-HEADED	Larus ridibundus	INC
6202	GULL, BONAPARTE'S	Larus philadelphia	INC
6203	GULL, FRANKLIN'S	Larus pipixcan	INC
6204	GULL, GLAUCOUS	Larus hyperboreus	INC
6205	GULL, GREAT BLACK-BACK	Larus marinus	INC
6206	GULL. HERRING	Larus argentatus	INC
6207	GULL. ICELAND	Larus alaucoides	INC
6215	GULL IVORY	Paaophila eburnea	INC
6208	GULL LAUGHING	Larus autricilla	INC
6209	GULL LESSER BLACK-BACK	Larus fuscus	INC
6210			INC
6211	GULL MEW	larus canus	
6200	GULL NK	Larinae	
6212	GULL RING BILLED	Larus delawarensis	INC
6216	GULL ROSS'S	Rhodostethia rosea	INC
6213	GULL SABINE'S	Xema sabini	INC
6214	GULL. THAYER'S	Larus thaveri	INC
6863	GUNNEL ROCK	Pholis gunnellus	SPP
1477	HADDOCK	Melanoarammus aealefinus	SPP
1500	HAGEISH, ATLANTIC	Myxine alutinosa	SPP
6604	HAKE BLUE	Antimora rostrata	SPP
6603		Phycis chesteri	SPP
6600	HAKE NK	Urophycis Merluccius Physicis	SPP
5080	HAKE, OFESHORE (BLACK WHITING)	Merluccius albidus	SPP
1520	HAKE, RED (LING)	Urophycis chuss	SPP
1551	HAKE, RED/WHITE MIX	Urophycis	SPP
5090	HAKE SILVER (WHITING)	Merluccius hilinearis	SPP
6615	HAKE SOUTHERN	Urophycis floridana	SPP
6602	HAKE SPOTTED	Urophycis regia	SPP
1539	HAKE WHITE	Urophycis teguis	SPP
1590		Hippoglossus hippoglossus	SPP
1590		Reinhardtius hinnoalossoides	SPP
1656	HARVESTEISH	Penrilus naru	SPP
1685		Clunea harenaus	
1120		Alosa aestivalis	
1670	HERRING NK	Cluneidae	CDD
1660	HERRING ROUND	Etrumeus teres	CDD
1280	HOGCHOCKER	Tripectes maculatus	
1700	HOGEISH		
1/90			JPP

Species Code	Common Name(s)	Scientific Name	Log
6690	HOUNDFISH	Tylosurus crocodilus	IAL
8990	INVERTEBRATE, NK	Invertebrata	SPP
0870	JACK, CREVALLE	Caranx hippos	SPP
6780	JACK, NK	Carangidae	SPP
6301	JAEGER, LONG TAILED	Stercorarius longicaudus	INC
6300	JAEGER, NK	Stercorariidae	INC
6302	JAEGER, PARASITIC	Stercorarius parasiticus	INC
6303	JAEGER, POMARINE	Stercorarius pomarinus	INC
6305	JAEGER, SOUTH POLAR	Carharacta maccormicki	INC
6871	JELLYFISH, NK	Scyphozoa	SPP
6618	KINGFISH, GULF	Menticirrhus littoralis	SPP
1970	KINGFISH, NK	Menticirrhus	SPP
6616	KINGFISH, NORTHERN	Menticirrhus saxatilis	SPP
6617	KINGFISH, SOUTHERN	Menticirrhus americanus	SPP
6311	KITTIWAKE, BLACK-LEGGED	Rissa tridactyla	INC
2680	LADYFISH	Elops saurus	SPP
6631	LAMPREY, NK	Petromyzontidae	SPP
6872	LAMPSHELL, NK	Brachiopoda	SPP
2060	LANCE, SAND, NK	Ammodytes	SPP
6774	LANCETFISH, NK	Alepisauridae	IAL
6608	LANTERNFISH, NK	Myctophidae	SPP
6787	LEATHERJACKET	Oligoplites saurus	SPP
6647	LIZARDFISH	Synodontidae	SPP
7270	LOBSTER, AMERICAN	Homarus americanus	SPP
6786	LOOKDOWN	Selene vomer	SPP
6322	LOON, ARCTICA	Gavia arctica	INC
6323	LOON, COMMON	Gavia immer	INC
6321	LOON, NK	Gaviidae	INC
6324	LOON, RED-THROATED	Gavia stellata	INC
6760	LOUVAR	Luvarus imperialis	IAL
2100	LUMPFISH	Cyclopterus lumpus	SPP
6635	LUMPSUCKER, ATLANTIC SPINY	Eumicrotremus spinosus	SPP
2120	MACKEREL, ATLANTIC	Scomber scombrus	SPP
6648	MACKEREL, BULLET	Auxis rochei	SPP
2150	MACKEREL, CHUB	Scomber colias	SPP
1320	MACKEREL, FRIGATE	Auxis thazard	IAL
1940	MACKEREL, KING	Scomberomorus cavalla	SPP/IAL
6649	MACKEREL, NK	Scombrini	SPP
6638	MACKEREL, SNAKE, NK	Gempylidae	SPP
3840	MACKEREL, SPANISH	Scomberomorus maculatus	SPP
6964	MANATEE, WEST INDIAN	Trichechus manatus	INC
6991	MARINE MAMMAL, NK	Cetacea, Pinnipedia	INC
2171	MARLIN, BLUE	Makaira nigricans	IAL
2181	MARLIN, NK (BILLFISHES)	Istiophoridae	IAL
2161	MARLIN, WHITE	Tetrapturus albidus	IAL
2210	MENHADEN, ATLANTIC	Brevoortia tyrannus	SPP
6103	MERGANSER, NK	Anatidae	INC
6770	MOLA, NK	Molidae	IAL
6772	MOLA, OCEAN SUNFISH	Mola mola	IAL
6771	MOLA, SHARPTAIL	Mosturus lanceolatus	IAL
6773	MOLA, SLENDER	Ranzania laevis	IAL
8040	MOLLUSK, NK	Mollusca	SPP

Species Code	Common Name(s)	Scientific Name	Log
0124	MONKFISH (GOOSEFISH)	Lophius americanus	SPP
0123	MONKFISH (GOOSEFISH) (LIVERS)	Lophius americanus	SPP
0120	MONKFISH (GOOSEFISH) (TAILS)	Lophius americanus	SPP
6785	MOONFISH, ATLANTIC	Selene setapinnis	SPP
2341	MULLET. NK	Mugilidae	SPP
2350	MULLET, STRIPED	Muail cephalus	SPP
6636	МИМИСНОС	Fundulus heteroclitus	SPP
6330	MURRE. NK	Uria	INC
6332	MURRE. THICK-BILLED	Uria lomvia	INC
6331	MURRE, THIN-BILLED	Uria aalge	INC
7810	MUSSEL, NK	Mytilus, Modiolus	SPP
6966	NARWHAL	Monodon monoceros	INC
0190	NEEDLEFISH. ATLANTIC	Stronavlura marina	IAL
1330	NEEDLEFISH. NK	Belonidae	SPP
6341	NODDY. BROWN	Anous stolidus	INC
2500	OCEAN POUT	Zoarces americanus	SPP
7860	OCTOPUS, NK	Octopoda	SPP
6639	OILFISH	Ruvettus pretiosus	IAL
6579	OLDSOUAW	Clanaula hvemalis	
2490	ОРАН	I ampris auttatus	
7898	OYSTER COMMON	Crassostrea virainica	SPP
7921		Ostrea edulis	SPP
5250			
6351		Pelecanus occidentalis	
3110	PERCH SAND	Dinlectrum formosum	SDD
5060	PERCH WHITE	Morone americana	SDD
5170		Perca flavescens	SPP
7980		Littorinidae	SPP
6791	PERMIT	Trachinotus falcatus	SPP
6362		Pterodroma cabow	
6363		Pterodroma hasitata	
6364	PETREL FEA'S	Pterodroma feae	
6361		Pterodroma arminioniana	
6371		Phalaropus fulicarius	
6372		Phalaropus Johatus	
2580		Orthonristis chrysontera	SDD
6781	PILOTEISH	Naucrates ductor	SPP
2670	PINFISH	I gaodon rhomboides	SPP
6621	PIPEFISH/SEAHORSE NK	Syngnathidae	SPP
2695		Pollachius virens	SPP
6777	POMERET ATIANTIC	Brama hrama	SPP
6776		Taractichthys Ionaininnis	SPP
6578	POMERET NK	Bramidae	SPP
6788			SDD
2720		Trachinotus carolinus	
6646		Diodon hystrix	
2220		Sparidae	
3200	PORGY RED	Pagrus nagrus	
5300		Phocoang phocoang	
6000		Phocoenidae Delabinidae	
6270		Pterodroma	
1200		Tetraodontidao	
4500		וכנומטעטוונועמכ	JFF

Species Code	Common Name(s)	Scientific Name	Log
4290	PUFFER, NORTHERN	Sphoeroides maculatus	SPP
6381	PUFFIN, ATLANTIC	Fratercula arctica	INC
7488	OUAHOG. HARD SHELL CLAM	Mercenaria mercenaria. M.campechiensis	SPP
7540	OUAHOG, OCEAN (BLACK CLAM)	Arctica islandica	SPP
3270	RAVEN, SEA	Hemitripterus americanus	SPP
6739	RAY, BULINOSE	Myliobatis freminvillii	SPP
6741	RAY BUTTERELY NK	Gymnura	
6742	RAY BUTTERELY SMOOTH	Gymnura micrura	
6743	RAY BUTTERELY SPINY	Gymnura altavela	
6740	RAY, COWNOSE	Rhinoptera bonasus	SPP
6745	RAY, DEVIL	Mobula hypostoma	IAL
6700	RAY FAGLE NK	Myliobatidae	
6720	RAY MANTA ATLANTIC	Manta hirostris	
6715	ΒΑΥ ΜΑΝΤΑ ΝΚ	Mohulidae	
6753	RAY NK	Rajiformes	
6730		Tornedo nobiliana	
2870	RAY SICKLEEIN (CHILEAN) DEVIL	Mobula taranacana	
2870		Mobula ianapica	
6391	RATORBILI	Alca torda	
2400	REDEISH NK (OCEAN DERCH)	Sehastes	SDD
6750	REMORA NK	Echeneidae	SPP
6644	RIBRONFISH NK	Trachinteridae	
6643		Desmodema polystictum	
6642			
6606		Enchalyopus cimbrius	
6876			
2420		Helicolenus dactulonterus	
6778		Genhyrobeny darwinii	
6779		Trachichthyidae	
2120		Carapy crusos	
6630		Istionhorus platunterus	
3050		Salmo salar	
2080		Oncorbunchus tshawwtscha	
3080		Oncorhynchus tshdwytschu	
3070		Oncorhynchus kisulch	
3090		Oncomynchus gorbuscha	
6974		Echiparachaius parma	
2106		Scombarasov saurus	
6794		Scomberesox sources	
6792	SCAD, MACKEDEL	Decenterus macarellus	
2210		Trachurus lathami	
7000		Argonacton irradianc	
7990		Argopecteri induluiis	
7970		Chlamus islandiag	
7950		Chiumys Islandica	
7900		Placeposton magallanique	577
6009		Fincopecteri mayenanicus	577
6521		Alaanitta nigra	JYP INC
6521	SCOTER, BLACK	Nolanitta	
6520		Nelanitta perseinillata	
6523		Nelanitta deglandi	
0522			
6678	I SCULPIN, LUNGHUKN	iviyoxocephalus octoaecemspinosus	1266

Species Code	Common Name(s)	Scientific Name	Log
3260	SCULPIN, NK	Cottidae	SPP
3295	SCUP	Stenotomus chrysops	SPP
3350	SEA BASS, BLACK	Centropristis striata	SPP
3330	SEA BASS, NK	Serranidae	SPP
8060	SEA CUCUMBER, NK	Holothuroidea	SPP
6873	SEA PANSY	Renilla reniformis	SPP
6884	SEA PEN, NK	Pennatulacea	SPP
6869	SEA POTATO	Leathesia difformis	SPP
3430	SEA ROBIN, ARMORED	Peristedion miniatum	SPP
3410	SEA ROBIN, NK	Triglidae	SPP
3400	SEA ROBIN, NORTHERN	Prionotus carolinus	SPP
3420	SEA ROBIN, STRIPED	Prionotus evolans	SPP
6879	SEA SQUIRT, NK	Ascidiacea	SPP
8050	SEA URCHIN, NK	Strongylocentrotus	SPP
6984	SEAL, BEARDED	Erignathus barbatus	INC
6996	SEAL, GRAY	Halichoerus grypus	INC
6995	SEAL, HARBOR	Phoca vitulina concolor	INC
6981	SEAL, HARP	Phoca groenlandica	INC
6982	SEAL, HOODED	Crystophora cristata	INC
6985	SEAL, LARGA (SPOTTED)	Phoca laraha	INC
6994	SEAL. NK	Phocidae	INC
6986	SEAL, RIBBON	Phoca fasciata	INC
6983	SEAL RINGED	Phoca hispida	INC
3340	SEATROUT, NK (WEAKEISHES)	Cynoscion	SPP
3450	SEATROUT SPOTTED	Cynoscion nebulosus	SPP
8171	SEAWEED NK	Phaeophyta	SPP
3474	SHAD AMERICAN	Alosa sanidissima	SPP
1340	SHAD, GIZZARD	Dorosoma cepedianum	SPP
1730		Alosa mediocris	SPP
6864	SHANNY NK	Stichaeidae	SPP
4771	SHARK, ATLANTIC ANGEL	Sauatina dumeril	IAL
4941	SHARK ATLANTIC SHARPNOSE	Rhizoprionodon terraenovae	
4948	SHARK ATLANTIC SHARPNOSE (FINS)	Rhizoprionodon terraenovae	SPP
4961	SHARK BASKING	Cetorhinus maximus	
4968	SHARK, BASKING (FINS)	Cetorhinus maximus	SPP
4300	SHARK BIGNOSE	Carcharhinus altimus	
4838	SHARK, BIGNOSE (FINS)	Carcharhinus altimus	SPP
4830		Carcharhinus limbatus	
4878	SHARK BLACK TIP (FINS)	Carcharhinus limbatus	SPP
5030		Carcharhinus acronotus	
4931	SHARK BLUE (BLUE DOG)	Prionace alauca	
4931	SHARK BLUE (BLUE DOG) (EINS)	Prionace glauca	SPP
6758	SHARK, BLUNTNOSE SIXGILI	Hexanchus ariseus	
4760		Sphyrna tiburo	
4700		Carcharhinus leucas	
4091		Carcharhinus leucas	SPP
4050		Carcharhinus	
4371		Carcharhinus	
4370		Carcharhinus	
4041		Carcharhinus obscurus	
4040		Carcharbinus isodon	
4990		Concliaininus isouoli	
4750	SHARK, GREENLAND	sommosus microcepnulus	IAL

Species Code	Common Name(s)	Scientific Name	Log
3860	SHARK, HAMMERHEAD, GREAT	Sphyrna mokarran	IAL
4951	SHARK, HAMMERHEAD, NK	Sphyrnidae	IAL
4958	SHARK, HAMMERHEAD, NK (FINS)	Sphyrnidae	SPP
4781	SHARK, HAMMERHEAD, SCALLOPED	Sphyrna lewini	IAL
4788	SHARK, HAMMERHEAD, SCALLOPED (FINS)	Sphyrna lewini	SPP
4791	SHARK, HAMMERHEAD, SMOOTH	Sphyrna zygaena	IAL
4798	SHARK, HAMMERHEAD, SMOOTH (FINS)	Sphyrna zygaena	SPP
4921	SHARK, LEMON	Negaprion brevirostris	IAL
4928	SHARK, LEMON (FINS)	Negaprion brevirostris	SPP
3581	SHARK, MAKO, LONGFIN	Isurus paucus	IAL
3588	SHARK, MAKO, LONGFIN (FINS)	Isurus paucus	SPP
3571	SHARK, MAKO, NK	Isurus	IAL
3572	SHARK, MAKO, NK (CHUNKS)	Isurus	SPP
3578	SHARK, MAKO, NK (FINS)	Isurus	SPP
3551	SHARK, MAKO, SHORTFIN	Isurus oxvrinchus	IAL
3558	SHARK, MAKO, SHORTFIN (FINS)	Isurus oxyrinchus	SPP
4861	SHARK, NIGHT	Carcharhinus signatus	IAL
4868	SHARK, NIGHT (FINS)	Carcharhinus signatus	SPP
3591	SHARK, NK	Chondrichthyes	IAL
3592	SHARK, NK (CHUNKS)	Chondrichthyes	SPP
3597	SHARK NK (EINS DBIED)	Chondrichthyes	SPP
3598	SHARK NK (FINS ERESH/FROZEN)	Chondrichthyes	SPP
3481	SHARK NURSE	Ginalymostoma cirratum	
3488	SHARK NUBSE (FINS)	Ginglymostoma cirratum	SPP
4901		Carcharhinus Ionaimanus	
4908		Carcharhinus longimanus	SPP
4981			
4988	SHARK PELAGIC NK (FINS)		SPP
4988	SHARK PORBEAGLE (MACKEREL SHARK)	Lamna nasus	
4818	SHARK, PORBEAGLE (MACKEREL SHARK)		SPP
3/01	SHARK SAND TIGER	Odontasnis taurus	
3/08	SHARK, SAND TIGER (FINIS)	Odontaspis taurus	
/821		Carcharbinus nlumbeus	
4821	SHARK, SANDBAR (BROWN SHARK)	Carcharhinus plumbeus	
6756		Hantranchias parlo	
1951		Carcharbinus falsiformis	
4651		Carcharhinus falciformis	
4030 6755		Odontachic forov	
4001		Carcharbinus brovininna	
4001	SHARK, SPINNER	Carcharbinus brevipinna	
4000			
25251		Alopias vulpinus	
2520		Alopias supersiliesus	
3541			
3548	SHARK, THRESHER, BIGEYE (FINS)	Alopios superciliosus	
4911		Guleocerdo cuvier	
4918		Guieocerao cuvier	SPP IAI
4801		Carcharoaon carcharlas	
4808	SHAKK, WHITE (FINS)	Carcnaroaon carcnarias	
6401	SHEARWATER, AUDUBON'S	Puffinus Iherminieri	
6407	SHEARWATER, CORY'S	Puffinus diomedea	
6402	SHEARWATER, GREATER	Puffinus gravis	INC
6403	SHEARWATER, LITTLE	Puffinus assimilis	INC

Species Code	Common Name(s)	Scientific Name	Log
6405	SHEARWATER, MANX	Puffinus puffinus	INC
6400	SHEARWATER, NK	Puffinus	INC
6406	SHEARWATER, SOOTY	Puffinus griseus	INC
3560	SHEEPSHEAD	Archosargus probatocephalus	SPP
6882	SHELL, NK		SPP
6897	SHELL, SCALLOP		SPP
6893	SHELLFISH, NK	Mollusca, Crustacea, Echinodermata	SPP
7370	SHRIMP, MANTIS	Stomatopoda	SPP
7350	SHRIMP, NK	Caridea	SPP
7360	SHRIMP, PANDALID, NK (NORTHERN)	Pandalus	SPP
7380	SHRIMP, PENAEID, NK (SOUTHERN)	Penaeidae	SPP
7330	SHRIMP, ROYAL RED	Pleoticus robustus	SPP
7340	SHRIMP, SCARLET	Aristaeopsis edwardsiana	SPP
6881	SHRIMP, SHORE, NK	Palaemonetes	SPP
3620	SILVERSIDE, ATLANTIC	Menidia menidia	SPP
3630	SILVERSIDE, NK	Atherinidae	SPP
3680	SKATE, BARNDOOR	Dipturus laevis	SPP
3681	SKATE, BARNDOOR (WINGS)	Dipturus laevis	SPP
3720	SKATE, CLEARNOSE	Raja eglanteria	SPP
3721	SKATE, CLEARNOSE (WINGS)	Raja eglanteria	SPP
3660	SKATE, LITTLE	Leucoraja erinacea	SPP
3661	SKATE, LITTLE (WINGS)	Leucoraja erinacea	SPP
3730	SKATE, LITTLE/WINTER, NK ¹²	Leucoraja	SPP
3731	SKATE, LITTLE/WINTER, NK (WINGS) ¹²	Leucoraja	SPP
3650	SKATE, NK	Rajidae	SPP
3651	SKATE, NK (WINGS)	Rajidae	SPP
3640	SKATE, ROSETTE	Leucoraja garmani	SPP
3641	SKATE, ROSETTE (WINGS)	Leucoraja garmani	SPP
3690	SKATE, SMOOTH	Malacoraja senta	SPP
3691	SKATE, SMOOTH (WINGS)	Malacoraja senta	SPP
3700	SKATE, THORNY	Amblyraja radiata	SPP
3701	SKATE, THORNY (WINGS)	Amblyraja radiata	SPP
3670	SKATE, WINTER (BIG)	Leucoraja ocellata	SPP
3671	SKATE, WINTER (BIG) (WINGS)	Leucoraja ocellata	SPP
6411	SKIMMER, BLACK	Rynchops niger	INC
6304	SKUA, GREAT	Catharacta skua	INC
3710	SMELT, RAINBOW	Osmerus mordax	SPP
6870	SNAIL, MOONSHELL, NK	Naticidae	SPP
6877	SNAIL, NK	Gastropoda	SPP
6628	SNAKEBLENNY	Lumpenus lampretaeformis	SPP
3754	SNAPPER, DOG	Lutjanus jocu	SPP
3360	SNAPPER, NK	Lutjanidae	SPP
3764	SNAPPER, RED	Lutjanus campechanus	SPP
3740	SNAPPER, VERMILLION	Rhomboplites aurorubens	SPP
6633	SNIPEFISH, LONGSPINE	Macroramphosus scolopax	SPP
6622	SNIPEFISH, NK	Centriscidae	SPP
6634	SNIPEFISH, SLENDER	Macroramphosus gracilis	SPP
3810	SPADEFISH	Chaetodipterus faber	SPP
6641	SPEARFISH, LONGBILL	Tetrapturus pfluegeri	IAL
6867	SPONGE, NK	Porifera	SPP

¹² Only to be used for skates under 35cm in length that cannot be distinguished.

Species Code	Common Name(s)	Scientific Name	Log
4060	SPOT	Leiostomus xanthurus	SPP
8010	SQUID, ATLANTIC LONG-FIN	Doryteuthis pealeii	SPP
8030	SQUID, NK	Teuthida	SPP
8020	SQUID, SHORT-FIN	Illex illecebrosus	SPP
0240	SQUIRRELFISH, NK	Holocentridae	SPP
6891	STARFISH, BRITTLE, NK	Ophiuroidea	SPP
8280	STARFISH, SEASTAR, NK	Asteroidea	SPP
6620	STARGAZER. NK	Uranoscopidae	SPP
0310	STARGAZER. NORTHERN	Astroscopus auttatus	SPP
6712	STINGRAY, ATLANTIC	Dasvatis sabina	IAL
6711	STINGRAY, BLUNTNOSE	Dasvatis sav	IAL
6705	STINGRAY, NK	Dasvatidae	IAL
6775	STINGRAY, PELAGIC	Pteroplatytrygon violaceg	IAL
6710	STINGRAY, ROUGHTAIL	Dasvatis centroura	IAL
6713	STINGRAY, SOUTHERN	Dasvatis americana	IAL
6853			SPP
6852	STOMACH CONTENTS, EISH, NK		SPP
6851	STOMACH CONTENTS, INVERTEBRATE, NK		SPP
6850			SPP
6431		Oceanodroma castro	
6432		Oceanodroma leucorhoa	
6430		Hydrobatidae	
6/33		Pelagodroma marina	
6434			
4200		Acipansar oyurinchus	
4200		Acipenser oxymicitus	
4211		Acipenser brevirostrum	
4220		Catostomidae	
4250		Contrarchidae	
4200			
4520		Xiphias gladius	
4327		Xiphias aladius	
4320		Alphilds gludius	IAL
4350			
4380			SPP
6501		Sterna paradisaea	INC
6513	TERN, BLACK	Childonias niger	INC
6502	TERN, BRIDLED	Sterna andetnetus	INC
6503		Sterna caspia	INC
6504		Sterna hirundo, S. paradisaea	INC
6505	TERN, COMMON	Sterna hirundo	INC
6506	TERN, FORSTER'S	Sterna forsteri	INC
6507	TERN, GULL-BILLED	Gelochelidon nilotica	INC
6508	TERN, LITTLE	Sterna albifrons	INC
6500	TERN, NK	Sterninae	INC
6509	TERN, ROSEATE	Sterna dougallii	INC
6510	TERN, ROYAL	Sterna maxima	INC
6511	TERN, SANDWICH	Sterna sandvicensis	INC
6512	TERN, SOOTY	Sterna fuscata	INC
4440	TILEFISH, BLUELINE	Caulolatilus microps	SPP
4460	TILEFISH, GOLDEN	Lopholatilus chamaeleonticeps	SPP
4470	TILEFISH, NK	Malacanthidae	SPP
6637	TOADFISH, NK	Batrachoididae	SPP

4510 TOADFISH, OYSTER Opsanus tau SPP   4530 TOMCOD, ATLANTIC Microgadus tomcad SPP   4560 TRIGGERFISH, NK Balistidae SPP   4590 TRUPICEIRD, NK Phaethon INC   6443 TROPICEIRD, NK Phaethon acthereus INC   6441 TROPICEIRD, NED-BILLED Phaethon acthereus INC   6441 TROPICEIRD, NMITE-TAILED Phaethon lepturus INC   4150 TOUN, STEELHEAD Oncorhynchus mykiss IAL   4701 TUNA, ALBACORE Thunnus olalunga SPP   4691 TUNA, BIG EYE Thunnus obesus SPP   4691 TUNA, BIG EYE (CHUNKS) Thunnus obesus SPP   4641 TUNA, BIG EYE (CHUNKS) Thunnus obesus SPP   4641 TUNA, BIG EYE (CHUNKS) Thunnus thynnus IAL   4657 TUNA, BILCENN (CHUNKS) Thunnus thynnus IAL   4658 TUNA, SULEFIN Thunnus thynnus SPP   4658 TUNA, SINJACK (CHUNKS) Thunnus thynnus SPP/IAL   4658 TUNA, SINJACK (CHUNKS) Thunnus thynnus SPP/IAL   4651 TUNA, SULEFIN Thunnus thacares IAL   4711 TUNA, SINJA	Species Code	Common Name(s)	Scientific Name	Log
4530 TOMCOD, ATLANTIC Microgadus tomood SPP   4560 TRIGGERFISH, NK Balistidae SPP   4590 TRIPLETAL Lobotes surinomensis IAL   6443 TROPCIGIRD, NK Phaethon aethereus INC   6444 TROPCIGIRD, NK Phaethon aethereus INC   6441 TROPCIGIRD, NWHIT-TALED Phaethon aethereus INC   4150 TROUT, STEELHEAD Oncorhynchus mykiss IAL   4701 TUNA, ALBACORE Thunnus alalunga SPP   4691 TUNA, BIG EYE Thunnus obesus IAL   4692 TUNA, BIG EYE (CHUNKS) Thunnus atlanticus SPP   4614 TUNA, BIG EYE (CHUNKS) Thunnus atlanticus SPP   4657 TUNA, BLACKFIN (CHUNKS) Thunnus atlanticus SPP   4657 TUNA, BLACKIN (CHUNKS) Thunnus atlanticus SPP   4657 TUNA, NK Thunnini IAL   4658 TUNA, SINPACK (CHUNKS) Thunnini IAL   46561 TUNA, SINPACK (CHUNKS) Thunnini IAL   46561 TUNA, SINPACK (CHUNKS) Thunnini IAL   4657 TUNA, SINPACK (CHUNKS) Thunnini IAL   46561 TUNA, SINPACK (CHUNKS)<	4510	TOADFISH, OYSTER	Opsanus tau	SPP
4550   TRIGEGERESH, NK   Balistidae   SPP     4590   TRIPLETAIL   Lobotes surinamensis   IAL     6443   TROPICBIRD, NK   Phaethon acthereus   INC     6441   TROPICBIRD, RED-BILED   Phaethon lepturus   INC     6441   TROPICBIRD, NHITE-TAILED   Phaethon lepturus   INC     4150   TROPICBIRD, WHITE-TAILED   Phaethon lepturus   INC     4701   TUNA, ALBACORE (CHUNKS)   Thunnus alolunga   SPP     4691   TUNA, BLACCRE (CHUNKS)   Thunnus ablesus   SPP     4692   TUNA, BLACKFIN (CHUNKS)   Thunnus atlanticus   IAL     4641   TUNA, BLACKFIN (CHUNKS)   Thunnus atlanticus   IAL     4642   TUNA, BLACKFIN (CHUNKS)   Thunnus atlanticus   SPP     4657   TUNA, BLUEFIN (CHUNKS)   Thunnus thynnus   SPP     4658   TUNA, NK (CHUNKS)   Thunnini   IAL     4658   TUNA, NK (CHUNKS)   Thunnus albacares   SPP/IAL     4651   TUNA, SKIPJACK (CHUNKS)   Thunnus albacares   SPP/IAL     4651   TUNA, SKIPJACK (CHUNKS)   Thunnus albacares   SPP/IAL	4530	TOMCOD, ATLANTIC	Microgadus tomcod	SPP
4590   TR0PICBIRD, NK   Phoethon   INC     6443   TR0PICBIRD, NK   Phoethon achtereus   INC     6441   TR0PICBIRD, RLD-BILLED   Phoethon leptruss   INC     6441   TR0PICBIRD, WHITE-TAILED   Phoethon leptruss   INC     4150   TROUT, STELEHAD   OncoThynchus mykiss   IAL     4701   TUNA, ALBACORE   Thunnus ololunga   IAL     4702   TUNA, ALBACORE (CHUNKS)   Thunnus ololunga   SPP     4691   TUNA, BIG EYE   Thunnus obesus   IAL     4642   TUNA, BLACKFIN (CHUNKS)   Thunnus obesus   SPP     4670   TUNA, BLACKFIN (CHUNKS)   Thunnus thynnus   IAL     4663   TUNA, BLACKFIN (CHUNKS)   Thunnus thynnus   IAL     4656   TUNA, NK (CHUNKS)   Thunnini   IAL     4657   TUNA, NK (CHUNKS)   Thunnini   IAL     4656   TUNA, SKIPACK (CHUNKS)   Thunnus olbacares   SPP     4711   TUNA, SKIPACK (CHUNKS)   Thunnus albacares   SPP/IAL     4712   TUNA, VELLOWFIN   Thunnus albacares   SPP     4711   TUNA, VELLOWFI	4560	TRIGGERFISH, NK	Balistidae	SPP
6443     TROPICBIRD, NK     Phoethon     INC       6441     TROPICBIRD, RED-BILLED     Phaethon aethereus     INC       6441     TROPICBIRD, WHTE-TAILED     Phaethon lepturus     INC       4150     TROPICBIRD, WHTE-TAILED     Phaethon lepturus     INC       4701     TUNA, ALBACORE     Thunnus alolunga     IAL       4702     TUNA, ALBACORE (CHUNKS)     Thunnus alolunga     IAL       4691     TUNA, BIG EYE     Thunnus obesus     SPP       4691     TUNA, BIG EYE (CHUNKS)     Thunnus obesus     SPP       4641     TUNA, BLACKFIN (CHUNKS)     Thunnus thynnus     IAL       4642     TUNA, BLACKFIN (CHUNKS)     Thunnus thynnus     IAL       4657     TUNA, BLUEFIN (CHUNKS)     Thunnus thynnus     SPP       4657     TUNA, NK (CHUNKS)     Thunnini     IAL       4658     TUNA, NK (CHUNKS)     Thunnus aloacares     SPP/IAL       4651     TUNA, SKIPJACK (CHUNKS)     Katsuwonus pelamis     SPP/IAL       4651     TUNA, SKIPJACK (CHUNKS)     Thunnus albacares     SPP/IAL       4711	4590	TRIPLETAIL	Lobotes surinamensis	IAL
6442     TROPICBIRD, RED-BILLED     Phoethon aethereus     INC       6441     TROPICBIRD, WHITE-TAILED     Phaethon legiturus     INC       4150     TROUT, STELHEAD     OncoTmychus mykiss     IAL       4701     TUNA, ALBACORE     Thunnus alalunga     IAL       4702     TUNA, ALBACORE     Thunnus obesus     IAL       4691     TUNA, BLACORE (CHUNKS)     Thunnus obesus     IAL       4692     TUNA, BLACCORE (CHUNKS)     Thunnus obesus     IAL       4641     TUNA, BLACKFIN (CHUNKS)     Thunnus stanticus     IAL       4642     TUNA, BLACKRIN (CHUNKS)     Thunnus thynnus     IAL       4670     TUNA, BLUEFIN     Thunnus thynnus     IAL       4671     TUNA, RUCHINKS)     Thunnini     IAL       4657     TUNA, NK (CHUNKS)     Thunnini     IAL       4656     TUNA, SKIPJACK (CHUNKS)     Katsuwonus pelamis     SPP/IAL       4661     TUNA, SKIPJACK (CHUNKS)     Katsuwonus albacares     SPP       4712     TUNA, SKIPJACK (CHUNKS)     Katsuwonus albacares     SPP       4711	6443	TROPICBIRD, NK	Phaethon	INC
6441     TROPICBIRD, WHITE-TAILED     Phaethon lepturus     INC       4150     TROUT, STELIHEAD     Oncorhynchus mykiss     IAL       4701     TUNA, ALBACORE     Thunnus alalunga     SPP       4691     TUNA, ALBACORE (CHUNKS)     Thunnus obesus     IAL       4692     TUNA, BIG EYE (CHUNKS)     Thunnus obesus     SPP       4641     TUNA, BIG EYE (CHUNKS)     Thunnus obesus     SPP       4642     TUNA, BIG EYE (CHUNKS)     Thunnus obesus     SPP       4642     TUNA, BLUEFIN     Thunnus obesus     SPP       4657     TUNA, BLUEFIN (CHUNKS)     Thunnus otionicus     SPP       4657     TUNA, NK (CHUNKS)     Thunnini     IAL       4658     TUNA, NK (CHUNKS)     Thunnini     IAL       4656     TUNA, SKIPJACK     Katsuwonus pelamis     SPP/IAL       4651     TUNA, SKIPJACK     Katsuwonus pelamis     SPP/IAL       4711     TUNA, YELLOWFIN (CHUNKS)     Thunnus albacares     SPP       4711     TUNA, SKIPJACK     Katsuwonus pelamis     SPP/IAL       4682     TUNA, YELLOWFIN	6442	TROPICBIRD, RED-BILLED	Phaethon aethereus	INC
4150 TROUT, STEELHEAD Oncorhynchus mykiss IAL   4701 TUNA, ALBACORE (CHUNKS) Thunnus alalunga IAL   4702 TUNA, ALBACORE (CHUNKS) Thunnus alalunga SPP   4691 TUNA, BIG EYE Thunnus alalunga SPP   4692 TUNA, BIG EYE (CHUNKS) Thunnus alanticus IAL   4692 TUNA, BIG EYE (CHUNKS) Thunnus alanticus IAL   4642 TUNA, BLACKFIN (CHUNKS) Thunnus alanticus SPP   4670 TUNA, BLACKFIN (CHUNKS) Thunnus alanticus SPP   4676 TUNA, BLUEFIN Thunnus thynnus IAL   4657 TUNA, NK (CHUNKS) Thunnini IAL   4656 TUNA, NK (CHUNKS) Thunnini IAL   4656 TUNA, SKIPJACK (CHUNKS) Katsuwonus pelamis SPP/IAL   4661 TUNA, SKIPJACK (CHUNKS) Thunnus albacares IAL   4711 TUNA, YELLOWFIN Thunnus albacares SPP/IAL   4712 TUNA, YELLOWFIN (CHUNKS) Thunnus albacares SPP/IAL   4681 TUNNY, UTTLE (FALSE ALBACORE) Euthynnus alletteratus SPP/IAL   4682 TUNNY, UTTLE (FALSE ALBACORE) Euthynnus alletteratus SPP/IAL   4682 TUNNY, UTTLE (FALSE ALBACORE) </td <td>6441</td> <td>TROPICBIRD, WHITE-TAILED</td> <td>Phaethon lepturus</td> <td>INC</td>	6441	TROPICBIRD, WHITE-TAILED	Phaethon lepturus	INC
4701 TUNA, ALBACORE Thunnus alalunga IAL   4702 TUNA, ALBACORE (CHUNKS) Thunnus alalunga SPP   4691 TUNA, BIG EYE Thunnus obesus SPP   4692 TUNA, BIG EYE (CHUNKS) Thunnus obesus SPP   4641 TUNA, BLACKFIN Thunnus atlanticus IAL   4642 TUNA, BLACKFIN (CHUNKS) Thunnus atlanticus IAL   46464 TUNA, BLACKFIN Thunnus thynnus IAL   4670 TUNA, BLACKFIN (CHUNKS) Thunnus thynnus SPP   4657 TUNA, NK (CHUNKS) Thunnini IAL   4658 TUNA, NK (CHUNKS) Thunnini IAL   46561 TUNA, SKIPACK Katsuwonus pelamis SPP   4651 TUNA, SKIPACK Katsuwonus pelamis SPP   4651 TUNA, YELLOWFIN (CHUNKS) Thunnus albacores IAL   4712 TUNA, YELLOWFIN (CHUNKS) Thunnus albacores SPP   4681 TUNNY, LITTLE (FALSE ALBACORE) Euthynnus alletteratus SPP/IAL   4682 TUNNY, LITTLE (FALSE ALBACORE) (CHUNKS) Euthynnus alletteratus SPP   8100 TURTLE, FALWKSBILL Erettonic mydas INC   8130 TURTLE, KAWKSBILL Erettonichelys inbricata <t< td=""><td>4150</td><td>TROUT, STEELHEAD</td><td>Oncorhynchus mykiss</td><td>IAL</td></t<>	4150	TROUT, STEELHEAD	Oncorhynchus mykiss	IAL
4702 TUNA, ALBACORE (CHUNKS) Thunnus alalunga SPP   4691 TUNA, BIG EYE Thunnus obesus IAL   4692 TUNA, BLE EYE (CHUNKS) Thunnus obesus SPP   4641 TUNA, BLACKFIN Thunnus atlanticus IAL   4642 TUNA, BLACKFIN (CHUNKS) Thunnus atlanticus SPP   4670 TUNA, BLUEFIN (CHUNKS) Thunnus thynnus IAL   4676 TUNA, BLUEFIN (CHUNKS) Thunnis thynnus SPP   4657 TUNA, NK (CHUNKS) Thunnini IAL   4656 TUNA, NK (CHUNKS) Thunnini IAL   4656 TUNA, NK (CHUNKS) Thunnini IAL   4651 TUNA, SKIPJACK (CHUNKS) Katsuwonus pelamis SPP/IAL   4662 TUNA, SKIPJACK (CHUNKS) Katsuwonus pelamis SPP/IAL   4661 TUNA, YELLOWFIN Thunnus albacares IAL   4711 TUNA, YELLOWFIN Thunnus albacares SPP   4681 TUNNY, LITTLE (FALSE ALBACORE) (CHUNKS) Euthynnus alletceratus SPP/IAL   4682 TUNNY, LITTLE (FALSE ALBACORE) (CHUNKS) Euthynnus alletaratus SPP/IAL   4681 TUNNY, LITTLE (FALSE ALBACORE) (CHUNKS) INC INC   8100 TURTLE, KEMP'S RIDLEY L	4701	TUNA, ALBACORE	Thunnus alalunga	IAL
4691   TUNA, BIG EYE   Thunnus obesus   IAL     4692   TUNA, BIG EYE (CHUNKS)   Thunnus obesus   SPP     4641   TUNA, BLACKFIN (CHUNKS)   Thunnus atlanticus   IAL     4642   TUNA, BLACKFIN (CHUNKS)   Thunnus atlanticus   IAL     4670   TUNA, BLACKFIN (CHUNKS)   Thunnus thynnus   SPP     4670   TUNA, BLEFIN (CHUNKS)   Thunnus thynnus   SPP     4657   TUNA, NK   Thunnus thynnus   SPP     4655   TUNA, NK (CHUNKS)   Thunnini   IAL     4656   TUNA, SKIPJACK   Katsuwonus pelamis   SPP/IAL     4661   TUNA, SKIPJACK   Katsuwonus pelamis   SPP/IAL     4662   TUNA, SKIPJACK   Katsuwonus pelamis   SPP/IAL     4651   TUNA, SKIPJACK   Katsuwonus pelamis   SPP     4611   TUNA, SKIPJACK   Katsuwonus pelamis   SPP     4711   TUNA, SKIPJACK   Katsuwonus pelamis   SPP     4711   TUNA, SKIPJACK   Katsuwonus pelamis   SPP     4681   TUNNY, LITTLE (FALSE ALBACORE)   Euthynnus alletteratus   SPP     4682	4702	TUNA, ALBACORE (CHUNKS)	Thunnus alalunga	SPP
4692 TUNA, BLG EYE (CHUNKS) Thunnus obesus SPP   4641 TUNA, BLACKFIN Thunnus atlanticus IAL   4642 TUNA, BLACKFIN Thunnus atlanticus SPP   4670 TUNA, BLUEFIN Thunnus thynnus IAL   4675 TUNA, BLUEFIN Thunnus thynnus IAL   4676 TUNA, BLUEFIN Thunnini IAL   4657 TUNA, NK (CHUNKS) Thunnini IAL   4658 TUNA, NK (CHUNKS) Thunnini IAL   4656 TUNA, SKIPJACK Katsuwonus pelamis SPP/   4661 TUNA, SKIPJACK (CHUNKS) Katsuwonus pelamis SPP/   4662 TUNA, SKIPJACK (CHUNKS) Thunnus albacares IAL   4711 TUNA, YELLOWFIN Thunnus albacares SPP   4681 TUNNY, LITTLE (FALSE ALBACORE) Euthynnus alletteratus SPP   4682 TUNNY, LITTLE (FALSE ALBACORE) Euthynnus alletteratus SPP   8100 TURTLE, GREN Chelonia mydas INC   8101 TURTLE, KAMP'S RIDLEY Lepidochelys kempii INC   8102 TURTLE, KAMP'S RIDLEY Lepidochelys lovacea INC   8101 TURTLE, NK TEstudines INC   8101 TU	4691	TUNA, BIG EYE	Thunnus obesus	IAL
4641 TUNA, BLACKFIN Thunnus atlanticus IAL   4642 TUNA, BLACKFIN (CHUNKS) Thunnus atlanticus SPP   4670 TUNA, BLUEFIN (CHUNKS) Thunnus thynnus IAL   4676 TUNA, BLUEFIN (CHUNKS) Thunnini IAL   4657 TUNA, NK Thunnini IAL   4658 TUNA, NK (CHUNKS) Thunnini IAL   4656 TUNA, SK (CHUNKS) Thunnini IAL   4651 TUNA, SK (PJACK Katsuwonus pelamis SPP   4652 TUNA, SKIPJACK Katsuwonus pelamis SPP   4651 TUNA, SKIPJACK Katsuwonus pelamis SPP   4711 TUNA, YELLOWFIN Thunnus albacares IAL   4712 TUNA, YELLOWFIN Thunnus albacares SPP   4681 TUNNY, UTTLE (FALSE ALBACORE) Euthynnus alletteratus SPP/IAL   4682 TUNNY, UTTLE (FALSE ALBACORE) Euthynnus alletteratus SPP   8140 TURTE, GREEN Chelonia mydas INC   8100 TURTE, KEMP'S RIDLEY Lepidochelys kempii INC   8100 TURTE, LATHERBACK Dermochelys coriacea INC   8130 TURTE, NK Testudines INC   8161 TURTE, NK <td>4692</td> <td>TUNA, BIG EYE (CHUNKS)</td> <td>Thunnus obesus</td> <td>SPP</td>	4692	TUNA, BIG EYE (CHUNKS)	Thunnus obesus	SPP
4642   TUNA, BLACKFIN (CHUNKS)   Thunnus atlanticus   SPP     4670   TUNA, BLUEFIN   Thunnus thynnus   IAL     4676   TUNA, NK   Thunnus thynnus   SPP     4657   TUNA, NK (CHUNKS)   Thunnini   IAL     4658   TUNA, NK (CHUNKS)   Thunnini   IAL     4656   TUNA, SKIPJACK (CHUNKS)   Thunnini   IAL     4662   TUNA, SKIPJACK (CHUNKS)   Katsuwonus pelamis   SPP/IAL     4661   TUNA, SKIPJACK (CHUNKS)   Katsuwonus pelamis   SPP/IAL     4662   TUNA, SKIPJACK (CHUNKS)   Thunnus albacares   IAL     4711   TUNA, YELLOWFIN (CHUNKS)   Thunnus albacares   SPP     4681   TUNNY, UTTLE (FALSE ALBACORE)   Euthynnus alletteratus   SPP/IAL     4682   TUNY, UTTLE (FALSE ALBACORE) (CHUNKS)   Euthynnus alletteratus   SPP     8090   TURTLE, GREEN   Chelonia mydas   INC     8140   TURTLE, KEMP'S RIDLEY   Lepidachelys kernpii   INC     8130   TURTLE, LEATHERBACK   Dermochelys coriacea   INC     8130   TURTLE, NK   Testudines   INC	4641	TUNA, BLACKFIN	Thunnus atlanticus	IAL
4670   TUNA, BLUEFIN   Thunnus thynnus   IAL     4676   TUNA, BLUEFIN (CHUNKS)   Thunnus thynnus   SPP     4657   TUNA, NK   Thunnini   IAL     4657   TUNA, NK (CHUNKS)   Thunnini   IAL     4658   TUNA, NK (CHUNKS)   Thunnini   IAL     4656   TUNA, SKIPJACK   Katsuwonus pelamis   SPP/     4662   TUNA, SKIPJACK (CHUNKS)   Katsuwonus pelamis   SPP/     4711   TUNA, YELLOWFIN   Thunnus albacares   IAL     4712   TUNA, YELLOWFIN (CHUNKS)   Thunnus albacares   SPP     4682   TUNNY, UTTLE (FALSE ALBACORE)   Euthynnus alletteratus   SPP/IAL     4682   TUNNY, UTTLE (FALSE ALBACORE) (CHUNKS)   Euthynnus alletteratus   SPP     8090   TURTLE, GREEN   Chelonia mydas   INC     8140   TURTLE, HAWKSBILL   Eretmachelys imbricata   INC     8100   TURTLE, LOGGERHEAD   Caretto caretta   INC     8130   TURTLE, LOGGERHEAD   Caretto caretta   INC     8160   TURTLE, LOGGERHEAD   Cheloniidae   INC     8110	4642	TUNA, BLACKFIN (CHUNKS)	Thunnus atlanticus	SPP
4676 TUNA, BLUEFIN (CHUNKS) Thunnist thynnus SPP   4657 TUNA, NK Thunnini IAL   4658 TUNA, NK (CHUNKS) Thunnini IAL   4656 TUNA, NK (CHUNKS) Thunnini IAL   4656 TUNA, NK (CHUNKS) Thunnini IAL   4661 TUNA, SKIPJACK Katsuwonus pelamis SPP/   4662 TUNA, SKIPJACK (CHUNKS) Katsuwonus pelamis SPP/   4711 TUNA, YELLOWFIN Thunnus albacares SPP   4712 TUNA, YELLOWFIN (CHUNKS) Thunnus albacares SPP/   4681 TUNNY, UITTLE (FALSE ALBACORE) Euthynnus alletteratus SPP/   4682 TUNNY, UITTLE (FALSE ALBACORE) (CHUNKS) Euthynnus alletteratus SPP   8090 TURTLE, GREEN Chelonia mydas INC   8140 TURTLE, GREEN Chelonia mydas INC   8100 TURTLE, LATHERBACK Dermochelys coriacea INC   8130 TURTLE, LATHERBACK Dermochelys coriacea INC   8160 TURTLE, NK Testudines INC   8161 TURTLE, NK TURTLE, NK Restareta   8161 TURTLE, NK TURTLE, NC INC   8161 TURTLE, NK	4670	TUNA, BLUEFIN	Thunnus thynnus	IAL
4657   TUNA, NK   Thunnini   IAL     4658   TUNA, NK (CHUNKS)   Thunnini   SPP     4656   TUNA, NK (DRESSED)   Thunnini   IAL     4656   TUNA, SKIPJACK   Katsuwonus pelamis   SPP/IAL     4661   TUNA, SKIPJACK (CHUNKS)   Katsuwonus pelamis   SPP/IAL     4662   TUNA, SKIPJACK (CHUNKS)   Katsuwonus pelamis   SPP/IAL     4711   TUNA, YELLOWFIN (CHUNKS)   Thunnus albacares   IAL     4711   TUNA, YELLOWFIN (CHUNKS)   Thunnus alletteratus   SPP/IAL     4681   TUNNY, LITTLE (FALSE ALBACORE) (CHUNKS)   Euthynnus alletteratus   SPP/IAL     4682   TUNNY, LITTLE (FALSE ALBACORE) (CHUNKS)   Euthynnus alletteratus   SPP     8090   TURTLE, GREEN   Chelonia mydas   INC     8140   TURTLE, HAWKSBILL   Eretmochelys imbricata   INC     8100   TURTLE, LEATHENBACK   Dermochelys coriacea   INC     8130   TURTLE, NK   Testudines   INC     8161   TURTLE, NK   Testudines   INC     8161   TURTLE, NK   Testudines   INC     81	4676	TUNA, BLUEFIN (CHUNKS)	Thunnus thynnus	SPP
4658   TUNA, NK (CHUNKS)   Thunnini   IAL     4656   TUNA, NK (DRESSED)   Thunnini   IAL     4661   TUNA, SKIPJACK   Katsuwonus pelamis   SPP/IAL     4662   TUNA, SKIPJACK (CHUNKS)   Katsuwonus pelamis   SPP     4711   TUNA, SKIPJACK (CHUNKS)   Katsuwonus pelamis   SPP     4711   TUNA, YELLOWFIN   Thunnus albacares   IAL     4712   TUNA, YELLOWFIN (CHUNKS)   Thunnus alletteratus   SPP/IAL     4682   TUNNY, LITTLE (FALSE ALBACORE)   Euthynnus alletteratus   SPP/IAL     4682   TUNNY, LITTLE (FALSE ALBACORE) (CHUNKS)   Euthynnus alletteratus   SPP/IAL     8100   TURTLE, GREEN   Chelonia mydas   INC     8100   TURTLE, KEMP'S RIDEY   Lepidochelys kempil   INC     8120   TURTLE, LEATHERBACK   Dermochelys coriacea   INC     8130   TURTLE, NK   Testudines   INC     8161   TURTLE, NK   Testudines   INC     8161   TURTLE, SUDER, POND   Trachemys arcinpta   IAL     8150   TURTLE, SUDER, POND   Trachemys scrinpta   IAL  <	4657	TUNA, NK	Thunnini	IAL
4656   TUNA, NK (DRESSED)   Thunnini   IAL     4661   TUNA, SKIPJACK   Katsuwonus pelamis   SPP/IAL     4662   TUNA, SKIPJACK (CHUNKS)   Katsuwonus pelamis   SPP     4711   TUNA, YELLOWFIN   Thunnus albacares   IAL     4712   TUNA, YELLOWFIN (CHUNKS)   Thunnus albacares   SPP     4681   TUNNY, LITTLE (FALSE ALBACORE)   Euthynnus alletteratus   SPP/IAL     4682   TUNNY, LITTLE (FALSE ALBACORE) (CHUNKS)   Euthynnus alletteratus   SPP     8090   TURTLE, GREEN   Chelonia mydas   INC     8140   TURTLE, LEATHERBACK   Dermochelys coriacea   INC     8120   TURTLE, LEATHERBACK   Dermochelys coriacea   INC     8130   TURTLE, NK, HARD-SHELL   Chelonidae   INC     8140   TURTLE, SUDER, POND   Trachemys scripta   IAL     8110   TURTLE, SUDER, POND   Trachemys scripta   IAL </td <td>4658</td> <td>TUNA, NK (CHUNKS)</td> <td>Thunnini</td> <td>SPP</td>	4658	TUNA, NK (CHUNKS)	Thunnini	SPP
4661   TUNA, SKIPJACK   Katsuwonus pelamis   SPP/IAL     4662   TUNA, SKIPJACK (CHUNKS)   Katsuwonus pelamis   SPP     4711   TUNA, YELLOWFIN   Thunnus albacares   IAL     4712   TUNA, YELLOWFIN (CHUNKS)   Thunnus albacares   SPP     4681   TUNNY, LITTLE (FALSE ALBACORE)   Euthynnus alletteratus   SPP/IAL     4682   TUNNY, LITTLE (FALSE ALBACORE) (CHUNKS)   Euthynnus alletteratus   SPP     8090   TURTLE, GREEN   Chelonia mydas   INC     8140   TURTLE, HAWKSBILL   Eretmochelys imbricata   INC     8100   TURTLE, LEATHERBACK   Dermochelys coriacea   INC     8120   TURTLE, LEATHERBACK   Dermochelys coriacea   INC     8130   TURTLE, NK   Testudines   INC     8160   TURTLE, NK   Testudines   INC     8161   TURTLE, NL, ARD-SHELL   Cheloniidae   INC     8110   TURTLE, SLIDER, POND   Trachemys scripta   IAL     8150   TURTLE, SLIDER, POND   Trachemys terrapin   IAL     6965   WALUS   Odobenus rosmarus   INC	4656	TUNA, NK (DRESSED)	Thunnini	IAL
4662   TUNA, SKIPJACK (CHUNKS)   Katsuwonus pelamis   SPP     4711   TUNA, YELLOWFIN   Thunnus albacares   IAL     4712   TUNA, YELLOWFIN (CHUNKS)   Thunnus albacares   SPP     4681   TUNNY, LITTLE (FALSE ALBACORE)   Euthynnus alletteratus   SPP/IAL     4682   TUNNY, LITTLE (FALSE ALBACORE)   Euthynnus alletteratus   SPP     8090   TURTLE, GREEN   Chelonia mydas   INC     8140   TURTLE, KEMP'S RIDLEY   Lepidochelys hempii   INC     8120   TURTLE, KEMP'S RIDLEY   Lepidochelys coriacea   INC     8130   TURTLE, LOGGERHEAD   Caretta caretta   INC     8160   TURTLE, NK, HARD-SHELL   Chelonidae   INC     8161   TURTLE, NK, HARD-SHELL   Chelonidae   INC     8161   TURTLE, SNAPPER   Chelydra serpentina   IAL     8150   TURTLE, TERRAPIN   Malaclemys terrapin   IAL     854   UNKNOWN LIVING MATTER   SPP   4446   WEAKFISH (SQUETEAGUE)   Cynoscion regalis   SPP     6993   WHALE, BEAKED, DOTTLENOSE   Hyperoodon ampullatus   INC   6993   INC	4661	TUNA. SKIPJACK	Katsuwonus pelamis	SPP/IAL
4711   TUNA, YELLOWFIN   Thunnus albacares   IAL     4712   TUNA, YELLOWFIN (CHUNKS)   Thunnus albacares   SPP     4681   TUNNY, LITTLE (FALSE ALBACORE)   Euthynnus alletteratus   SPP/IAL     4682   TUNNY, LITTLE (FALSE ALBACORE) (CHUNKS)   Euthynnus alletteratus   SPP     8090   TURTLE, GREEN   Chelonia mydas   INC     8140   TURTLE, GREEN   Chelonia mydas   INC     8100   TURTLE, KMP'S RIDLEY   Lepidochelys kempil   INC     8100   TURTLE, LGAGERHEAD   Caretta carectta   INC     8110   TURTLE, LOGGERHEAD   Caretta carectta   INC     8160   TURTLE, NK, HARD-SHELL   Cheloniidae   INC     8110   TURTLE, SUDER, POND   Trachemys scripta   IAL     8110   TURTLE, SNAPPER   Chelydra serpentina   IAL     8081   TURTLE, SNAPPER   Chelydra serpentina   IAL     8684   UNKNOWN LIVING MATTER   SPP   4720   WAHOO   Acanthocybium solandri   IAL     6854   UNKNOWN LIVING MATTER   SPP   6993   WHALE, BEAKED, CUVIER'S   Ziphius cavirostris	4662	TUNA, SKIPJACK (CHUNKS)	Katsuwonus pelamis	SPP
4712   TUNA, YELLOWFIN (CHUNKS)   Thunnus allacares   SPP     4681   TUNNY, LITTLE (FALSE ALBACORE)   Euthynnus alletteratus   SPP/IAL     4682   TUNNY, LITTLE (FALSE ALBACORE)   Euthynnus alletteratus   SPP     8090   TURTLE, GREEN   Chelonia mydas   INC     8140   TURTLE, HAWKSBILL   Eretmochelys imbricata   INC     8100   TURTLE, HAWKSBILL   Eretmochelys coriacea   INC     8120   TURTLE, LEATHERBACK   Dermochelys coriacea   INC     8130   TURTLE, LOGGERHEAD   Caretta caretta   INC     8160   TURTLE, NK   Testudines   INC     8161   TURTLE, NK HARD-SHELL   Cheloniidae   INC     8110   TURTLE, SLIDER, POND   Trachemys scripta   IAL     8150   TURTLE, SLIDER, POND   Trachemys terrapin   IAL     8681   TURTLE, TERRAPIN   Malaclemys terrapin   IAL     8681   TURTLE, SUPPER   Chelydra serpentina   IAL     8684   UNKNOWN LIVING MATTER   SPP   4720   WAHOO   Acanthocybium solandri   IAL     69655   WALUS	4711	TUNA. YELLOWFIN	Thunnus albacares	IAL
4681   TUNNY, LITTLE (FALSE ALBACORE)   Euthynnus alletteratus   SPP/IAL     4682   TUNNY, LITTLE (FALSE ALBACORE) (CHUNKS)   Euthynnus alletteratus   SPP     8090   TURTLE, GREEN   Chelonia mydas   INC     8140   TURTLE, KAWSBILL   Eretmochelys imbricata   INC     8100   TURTLE, KEMP'S RIDLEY   Lepidochelys kempii   INC     8120   TURTLE, KEMP'S RIDLEY   Lepidochelys coriacea   INC     8130   TURTLE, KAMP'S RIDLEY   Lepidochelys coriacea   INC     8160   TURTLE, NK   Testudines   INC     8161   TURTLE, NK, HARD-SHELL   Cheloniidae   INC     8180   TURTLE, SLIDER, POND   Trachemys scripta   IAL     8150   TURTLE, SNAPPER   Chelydra serpentina   IAL     8081   TURTLE, TERRAPIN   Malaclemys terrapin   IAL     6854   UNKNOWN LIVING MATTER   SPP   4720   WAHOO   Acanthocybium solandri   IAL     6911   WHALE, BALEEN, NK   Mysticeti   INC   6911   INC     6944   WHALE, BEAKED, CUVIER'S   Ziphius covirostris   INC   6953	4712	TUNA, YELLOWEIN (CHUNKS)	Thunnus albacares	SPP
4682TUNNY, LITTLE (FALSE ALBACORE) (CHUNKS)Euthynnus alletteratusSPP8090TURTLE, GREENChelonia mydasINC8140TURTLE, GREENChelonia mydasINC8140TURTLE, HAWKSBILLEretmochelys imbricataINC8100TURTLE, KEMP'S RIDLEYLepidochelys kempiiINC8120TURTLE, LEATHERBACKDermochelys coriaceaINC8130TURTLE, LOGGERHEADCaretta carettaINC8160TURTLE, NKTestudinesINC8161TURTLE, NKTestudinesINC8180TURTLE, SLIDER, PONDTrachemys scriptaIAL8150TURTLE, SLIDER, PONDTrachemys scriptaIAL8150TURTLE, TERRAPINMalaclemys terrapinIAL6854UNKNOWN LIVING MATTERSPP4720WAHOO6455WALRUSOdobenus rosmarusINC3446WEAKFISH (SQUETEAGUE)Cynoscion regalisSPP6993WHALE, BEAKED, DOTTLENOSEHyperoadon ampullatusINC6908WHALE, BEAKED, DENSEMesoplodon densirostrisINC6907WHALE, BEAKED, OWERBY'SMesoplodon densirostrisINC6910WHALE, BEAKED, SOWERBY'SMesoplodon mirusINC6954WHALE, BEAKED, SOWERBY'SMesoplodon mirusINC6954WHALE, BEAKED, OWERSYMesoplodon densirostrisINC6954WHALE, BEAKED, OWERBY'SMesoplodon mirusINC6954WHALE, BEAKED, SOWERBY'SMesoplodon bidensI	4681	TUNNY LITTLE (FALSE ALBACORE)	Futhynnus alletteratus	SPP/IAI
Note:District (NetWork) (control)8090TURTLE, GREENChelonia mydas8140TURTLE, IGREENChelonia mydas8140TURTLE, HAWKSBILLEretmochelys imbricata8100TURTLE, KEMP'S RIDLEYLepidochelys kempii8120TURTLE, LEATHERBACKDermochelys coriacea8130TURTLE, LOGGERHEADCaretta caretta8160TURTLE, NKTestudines8161TURTLE, NKTestudines8161TURTLE, OLIVE RIDLEYLepidochelys olivacea8180TURTLE, SUDER, PONDTrachemys scripta8110TURTLE, SUDER, PONDTrachemys scripta8110TURTLE, TERRAPINMalaclemys terrapin8081TURTLE, TERRAPINMalaclemys terrapin6854UNKNOWN LIVING MATTERSPP4720WAHOOAcanthocybium solandri3446WEAKFISH (SQUETEAGUE)Cynoscion regalis6993WHALE, BEAKED, BOTTLENOSEHyperoadon ampullatus6911WHALE, BEAKED, DENSEMesoplodon europaeus6907WHALE, BEAKED, OENSEMesoplodon europaeus6909WHALE, BEAKED, OENSEMesoplodon mirus6910WHALE, BEAKED, SOWERBY'SMesoplodon mirus6910WHALE, BEAKED, SOWERBY'SMesoplodon mirus6924WHALE, BEAKED, SOWERBY'SMesoplodon mirus6934WHALE, BEAKED, SOWERBY'SMesoplodon mirus6947WHALE, BEAKED, SOWERBY'SMesoplodon mirus6958WHALE, BEAKED, SOWERBY'SMesoplodon mirus6959<	4682	TUNNY LITTLE (FALSE ALBACORE) (CHUNKS)	Euthynnus alletteratus	SPP
BissionBissionBissionBission8140TURTLE, HAWKSBILLEretmochelys imbricataINC8100TURTLE, KEMP'S RIDLEYLepidochelys kempiiINC8120TURTLE, LEATHERBACKDermochelys coriaceaINC8130TURTLE, LGGERHEADCaretta carettaINC8160TURTLE, NKTestudinesINC8161TURTLE, NK, HARD-SHELLCheloniidaeINC8161TURTLE, OLIVE RIDLEYLepidochelys olivaceaINC8110TURTLE, SLIDER, PONDTrachemys scriptaIAL8150TURTLE, SANPPERChelydra serpentinaIAL8081TURTLE, TERRAPINMalaclemys terrapinIAL6854UNKNOWN LIVING MATTERSPP4720WAHOOAccanthocybium solandriIAL6965WALRUSOdobenus rosmarusINC6965WALRUSOdobenus rosmarusINC6993WHALE, BAKED, BOTTLENOSEHyperoodon ampullatusINC6908WHALE, BEAKED, DENSEMesoplodon densirostrisINC6907WHALE, BEAKED, GERVAIS'Mesoplodon densirostrisINC6909WHALE, BEAKED, NKMesoplodon mirusINC6910WHALE, BEAKED, NKMesoplodon mirusINC6923WHALE, BEAKED, NKMesoplodon mirusINC6947WHALE, BEAKED, NKMesoplodonINC6948WHALE, BEAKED, NKMesoplodon mirusINC6944WHALE, BEUGADelphinapterus leucasINC <td< td=""><td>8090</td><td></td><td>Chelonia mydas</td><td></td></td<>	8090		Chelonia mydas	
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8120TURTLE, LEATHERBACKDermochelys coriaceaINC8130TURTLE, LOGGERHEADCaretta carettaINC8160TURTLE, NKTestudinesINC8161TURTLE, NK, HARD-SHELLCheloniidaeINC8180TURTLE, OLIVE RIDLEYLepidochelys olivaceaINC8110TURTLE, SUDER, PONDTrachemys scriptaIAL8150TURTLE, SUDER, PONDTrachemys scriptaIAL8081TURTLE, SUDER, PONDTrachemys scriptaIAL6654UNKNOWN LIVING MATTERSPP4720WAHOOAcanthocybium solandriIAL6965WALRUSOdobenus rosmarusINC3446WEAKFISH (SQUETEAGUE)Cynoscion regalisSPP6993WHALE, BALEEN, NKMysticetiINC6911WHALE, BEAKED, DOTLENOSEHyperodon ampullatusINC6908WHALE, BEAKED, GERVAIS'Mesoplodon densirostrisINC6907WHALE, BEAKED, GERVAIS'Mesoplodon mirusINC6910WHALE, BEAKED, SOWERBY'SMesoplodon mirusINC6910WHALE, BEAKED, RUVIS'Mesoplodon mirusINC6928WHALE, BELUGADelphinapterus leucasINC6934WHALE, BELUGADelphinapterus leucasINC6947WHALE, BELUGADelphinapterus leucasINC6947WHALE, BELUGADelphinapterus leucasINC6948WHALE, BELUGADelphinapterus leucasINC6947WHALE, BELUGADelphinapterus educi <td>8100</td> <td>TURTLE, KEMP'S RIDLEY</td> <td>Lepidochelvs kempii</td> <td>INC</td>	8100	TURTLE, KEMP'S RIDLEY	Lepidochelvs kempii	INC
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4720WAHOOAcanthocybium solandriIAL6965WALRUSOdobenus rosmarusINC3446WEAKFISH (SQUETEAGUE)Cynoscion regalisSPP6993WHALE, BALEEN, NKMysticetiINC6911WHALE, BEAKED, BOTTLENOSEHyperoodon ampullatusINC6954WHALE, BEAKED, CUVIER'SZiphius cavirostrisINC6908WHALE, BEAKED, DENSEMesoplodon densirostrisINC6907WHALE, BEAKED, GERVAIS'Mesoplodon neuropaeusINC6953WHALE, BEAKED, NKMesoplodon neuropaeusINC6954WHALE, BEAKED, GERVAIS'Mesoplodon neuropaeusINC6907WHALE, BEAKED, GERVAIS'Mesoplodon neuropaeusINC6953WHALE, BEAKED, NKMesoplodon neuropaeusINC6954WHALE, BEAKED, SOWERBY'SMesoplodon bidensINC6910WHALE, BEAKED, TRUE'SMesoplodon mirusINC6958WHALE, BELUGADelphinapterus leucasINC6947WHALE, BLUEBalaenoptera musculusINC6988WHALE, BENDE'SPalapapatera adapiINC	6854	UNKNOWN LIVING MATTER		SPP
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3446WEAKFISH (SQUETEAGUE)Cynoscion regalisSPP6993WHALE, BALEEN, NKMysticetiINC6911WHALE, BEAKED, BOTTLENOSEHyperoodon ampullatusINC6954WHALE, BEAKED, CUVIER'SZiphius cavirostrisINC6908WHALE, BEAKED, DENSEMesoplodon densirostrisINC6907WHALE, BEAKED, GERVAIS'Mesoplodon europaeusINC6953WHALE, BEAKED, NKMesoplodonINC6909WHALE, BEAKED, SOWERBY'SMesoplodon bidensINC6910WHALE, BEAKED, TRUE'SMesoplodon mirusINC6958WHALE, BELUGADelphinapterus leucasINC6947WHALE, BLUEBalaenoptera musculusINC	6965	WALRUS	Odobenus rosmarus	
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6908WHALE, BEAKED, DENSEMesoplodon densirostrisINC6907WHALE, BEAKED, GERVAIS'Mesoplodon europaeusINC6953WHALE, BEAKED, NKMesoplodonINC6909WHALE, BEAKED, SOWERBY'SMesoplodon bidensINC6910WHALE, BEAKED, TRUE'SMesoplodon mirusINC6958WHALE, BELUGADelphinapterus leucasINC6947WHALE, BLUEBalaenoptera musculusINC	6954	WHALE BEAKED CUVIER'S	Zinhius cavirostris	
6900   WHALE, BEAKED, GERVAIS'   Mesoplodon densitionality   INC     6907   WHALE, BEAKED, GERVAIS'   Mesoplodon europaeus   INC     6953   WHALE, BEAKED, NK   Mesoplodon bidens   INC     6909   WHALE, BEAKED, SOWERBY'S   Mesoplodon mirus   INC     6910   WHALE, BEAKED, TRUE'S   Mesoplodon mirus   INC     6958   WHALE, BELUGA   Delphinapterus leucas   INC     6947   WHALE, BLUE   Balaenoptera musculus   INC     6988   WHALE, BRYDE'S   Palaenoptera adaption   INC	6908	WHALE BEAKED DENSE	Mesonlodon densirostris	
6953 WHALE, BEAKED, NK Mesoplodon curopacus INC   6909 WHALE, BEAKED, SOWERBY'S Mesoplodon bidens INC   6910 WHALE, BEAKED, TRUE'S Mesoplodon mirus INC   6958 WHALE, BELUGA Delphinapterus leucas INC   6947 WHALE, BLUE Balaenoptera musculus INC   6988 WHALE BRYDE'S Palaenoptera adapti INC	6907	WHALF, BEAKED, GERVAIS'	Mesoplodon europaeus	
6909 WHALE, BEAKED, SOWERBY'S Mesoplodon bidens INC   6910 WHALE, BEAKED, TRUE'S Mesoplodon mirus INC   6958 WHALE, BELUGA Delphinapterus leucas INC   6947 WHALE, BLUE Balaenoptera musculus INC	6953	WHALF, BEAKED, NK	Mesoplodon	
6910 WHALE, BEAKED, TRUE'S Mesoplodon mirus INC   6958 WHALE, BELUGA Delphinapterus leucas INC   6947 WHALE, BLUE Balaenoptera musculus INC	6909	WHALF, BEAKED, SOWERBY'S	Mesoplodon bidens	
6950 WHALE, BLUGA Delphinapterus leucas INC   6947 WHALE, BLUE Balaenoptera musculus INC   6988 WHALE BRYDE'S INC	6910	WHALE BEAKED TRUE'S	Mesoplodon mirus	
6947 WHALE, BLUE Balaenoptera musculus INC   6988 WHALE BRYDE'S INC	6958	WHALF BELLIGA	Delphinanterus leucas	
6088 WHALE BRVDE'S Balagonantara adani	6947	WHALF BILLE	Balgenontera musculus	
	6988	WHALE BRYDE'S	Balgenontera edeni	
6905 WHALE DWARE SPERM Kogig simus	6905	WHALF DWARE SPERM	Kogia simus	

Species Code	Common Name(s)	Scientific Name	Log
6930	WHALE, FALSE KILLER	Pseudorca crassidens	INC
6929	WHALE, FIN/SEI	Balaenoptera physalus, B. borealis	INC
6931	WHALE, FINBACK	Balaenoptera physalus	INC
6933	WHALE, HUMPBACK	Megaptera novaeangliae	INC
6950	WHALE, KILLER	Orcinus orca	INC
6987	WHALE, MELON-HEADED	Peponocephala electra	INC
6945	WHALE, MINKE	Balaenoptera acutorostrata	INC
6999	WHALE, NK (CETACEAN, NK)	Cetacea	INC
6904	WHALE, PILOT, LONG-FIN	Globicephala melaena	INC
6992	WHALE, PILOT, NK	Globicephala	INC
6903	WHALE, PILOT, SHORT-FIN	Globicephala macrorhynchus	INC
6955	WHALE, PYGMY KILLER	Feresa attenuata	INC
6956	WHALE, PYGMY SPERM	Kogia breviceps	INC
6946	WHALE, RIGHT, NORTHERN	Eubalaena glacialis	INC
6932	WHALE, SEI	Balaenoptera borealis	INC
6948	WHALE, SPERM	Physeter macrocephalus	INC
6980	WHALE, TOOTHED, NK	Odontoceti	INC
7760	WHELK, CHANNELED (SMOOTH)	Busycotypus canaliculatus	SPP
7750	WHELK, CONCH	Strombidae	SPP
7770	WHELK, KNOBBED	Busycon carica	SPP
7780	WHELK, LIGHTNING	Busycon sinistrum	SPP
7740	WHELK, NK	Buccinidae	SPP
5120	WOLFFISH, ATLANTIC	Anarhichas lupus	SPP
6681	WOLFFISH, NORTHERN	Anarhichas denticulatus	SPP
5100	WOLFFISH, SPOTTED	Anarhichas minor	SPP
8230	WORM, BLOOD	Glycera dibranchiata	SPP
8250	WORM, NK	Nereis	SPP
5130	WRECKFISH	Polyprion americanus	IAL
6790	WRYMOUTH	Cryptacanthodes maculatus	SPP

If exact species code does not exist in this list, use the next most generic code and comment on the species.

