Variable Definitions for trawl gears

Variable Name	Definition
No.	number of the take (in sequential order)
Take Species	common name of the incidentally taken animal
# of takes	number of takes in a tow
Target Species	common name of the species targeted for the trip, reported by the captain. See Table 1 for abbreviations.
Year	year that the trip took place in
Month	month that the trip took place in
State	state that the trip landed in
County	county that the trip landed in
Region	area of the country the trip took place in (i.e.: New England (NE) and Mid-Atlantic (MidAtl))
Stat Area	Statistical Area that the trip took place in, either calculated or given by captain (see plot)
Haul Day	day that the haul began
Haul Begin Time	time that the haul began (the hauling equipment is put into gear)
Haul Duration	derived field using the haul begin time and haul end time
SST	using the location that the haul began at, SST is derived from satellite imagery (in Celsius)
Slope	using the location that the haul began at, slope is derived from bottom topography (in degrees)
Depth	using the location that the haul began at, the water depth derived from topography data (in meters)
Weather	weather at the beginning of the tow. Choices are in Table 2.
Wind Speed	wind speed at the beginning of the tow (in whole knots)
Wave Height	wave height at the beginning of the tow (in whole feet)
Vessel Gross Tons	gross tonnage of the vessel
Vessel Horsepower	horsepower of the vessel engine(s)
Tow Speed	average towing speed that the vessel towed the net over the bottom (to the nearest tenth of a knot)
Net Design	construction design of the net (applies only to mid-water trawl gear). Choices are: unknown, 2 seam, 4 seam equal panels, 4 seam unequal panels, other.
Transducer Used	indicates whether a transducers was mounted on the gear
Transducer Brand	brand of transducer mounted on the gear. Choices are: unknown, Furuno, Simrad, other, none.
Wireout	amount of wire paid out (in whole fathoms)
Scope	derived field of the wireout/depth

Fishing Circle Mesh Size	inside mesh measurement from the fishing circle
Number of Mesh in Fishing Circle	number of meshes in the fishing circle (if can't be measured directly, it can be obtained from captain)
Presence of Excluder (includes TEDs for turtles)	indicates whether an excluder or separator device was used on the gear
Working TED Used	indicates whether a TED was working
Presence of Fish Outlet	indicates whether a fish outlet was used on the gear
Gear Condition	indicates condition of the gear at the time of haulback. Choices are in Table 3.
Groundcable Length	length of the wire connecting the bridles and the back strap (in whole feet)
Headrope Length	length of the rope along the top of the net, either directly measured or from captain (in whole feet)
Footrope/Sweep Length	length of the rope along the bottom of the net, either directly measured or from captain (in whole feet)
Sweep Type	type of gear making up the sweep. Choices are: unknown, chain, cable/wire, wrapped cable, rock hopper, roller, rubber cookie, bobbin, none, other.
Days Fished	derived field of the days the boat fished on a haul
Net Name	name of the net used.
Cod Mesh Size	inside measurement of mesh in the cod end (in whole millimeters)

Table 1. Target species codes and names.

TARGET SPECIES	
Code	Name
acod	american cod
lobs	american lobster
apfl	american plaice flounder
croa	croaker
flnk	flounder, nk
hadd	haddock
herr	herring
lfsq	long-fin squid
mack	mackerel
mxgr	mixed groundfish
monk	monkfish
sfsq	short-fin squid
silh	silver hake
sufl	summer flounder
weak	weak fish
whih	white hake
winf	winter flounder
wifl	witch flounder
ylfl	yellowtail flounder

Table 2. Weather condition choices available to observers.

WEATHER CONDITIONS
Choices
Unknown
Clear
Partly cloudy
Continuous layers of clouds
Drizzle
Rain
Showers
Thunderstorms
Rain and fog
Fog or thick haze
Snow, or rain and snow mixed
Blowing snow
Other

Table 3. Gear condition choices available to observers.

GEAR CONDITIONS
Choices
No gear damage, or very few small, scattered holes
Wings twisted or tron, not exceeding 50% of meshes
Wings twisted or tron, exceeding 50% of meshes
Square and/or bosom torn, not exceeding 50% of meshes
Square and/or bosom torn, exceeding 50% of meshes
Belly torn, not exceeding 50% of meshes
Belly torn, exceeding 50% of meshes
Codend and/or extension piece torn, not exceeding 10% of meshes
Codend and/or extension piece torn, exceeding 10% of meshes
Hang-up, causing gear to be hauled back before secheduled time; minor damage
Parted legs, sweep, or headrope.
Tear up exceeding gear condition number 2, but not total net destruction
Obstruction in gear, such as a large amount of fixed gear, boulders, etc.
Crossed doors
Open codend
Major hang-up, tear-up, or loss of gear
Grate clogged with fish or debris
Other

Information on observed marine mammal takes in bottom trawl gear for 2005.

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1	white-sided dolphin	1	haddock	2005	2	MA	Essex	NE	521	25	8:06	6.60	4.62	0.15	142.20	79	Blowing Snow	20	6	168	775	3.00	NA	Unknown
2	white-sided dolphin	1	monkfish	2005	2	MA	Essex	NE	514	26	23:26	6.60	3.94	0.18	221.40	123	Clear	20	5	168	775	3.00	NA	Unknown
3	white-sided dolphin	1	cod	2005	2	RI	Washington	NE	521	25	14:46	5.10	4.02	0.17	171.00	95	Blowing Snow	30	15	158	670	3.10	NA	Unknown
4	white-sided dolphin	1	groundfish, nk	2005	2	MA	Barnstable	NE	521	26	22:54	6.30	3.81	0.09	189.00	105	Continuous Layers of Clouds	15	3	104	700	3.20	NA	Unknown
5	white-sided dolphin	1	lobster	2005	3	MA	Suffolk	NE	522	20	10:55	5.30	3.48	0.90	172.80	96	Partly Cloudy	15	3	109	503	3.00	NA	Unknown
6	white-sided dolphin	1	witch flounder	2005	3	MA	Bristol	NE	521	20	3:40	3.50	3.85	0.11	203.40	113	Partly Cloudy	5	2	165	960	3.00	NA	Unknown
7	white-sided dolphin	1	witch flounder	2005	3	RI	Newport	NE	522	21	10:27	3.10	3.58	0.19	214.20	119	Continuous Layers of Clouds	5	3	119	425	2.40	NA	Unknown
8	white-sided dolphin	1	monkfish	2005	3	RI	Newport	NE	522	25	13:10	4.80	3.60	0.25	235.80	131	Partly Cloudy	15	7	119	425	2.30	NA	Unknown
9	white-sided dolphin	1	witch flounder	2005	3	MA	Bristol	NE	522	21	12:16	4.40	3.53	0.49	178.20	99	Continuous Layers of Clouds	5	0	127	520	3.00	NA	Unknown
10	white-sided dolphin	1	white hake	2005	3	ME	Cumberland	NE	514	8	11:26	1.70	3.57	0.07	261.00	145	Rain	25	7	105	503	3.00	NA	Wired
11	white-sided dolphin	1	haddock	2005	3	MA	Essex	NE	561	24	20:48	5.40	3.32	0.22	255.60	142	Continuous Layers of Clouds	25	8	117	565	3.90	NA	Unknown
12	white-sided dolphin	1	cod	2005	3	MA	Bristol	NE	521	6	7:43	4.50	4.46	0.19	162.00	90	Partly Cloudy	6	5	151	760	4.10	NA	Unknown
13	white-sided dolphin	1	haddock	2005	3	ME	Cumberland	NE	521	8	5:31	7.40	4.05	0.21	194.40	108	Continuous Layers of Clouds	30	6	159	625	3.10	NA	Unknown
14	white-sided dolphin	1	flounder, nk	2005	3	MA	Bristol	NE	522	16	:03	6.00	3.75	0.12	171.00	95	Continuous Layers of Clouds	15	5	134	1300	3.10	NA	Wired
15	white-sided dolphin	1	cod	2005	3	MA	Bristol	NE	522	17	10:19	2.30	4.11	0.38	149.40	83	Partly Cloudy	15	3	134	1300	3.10	NA	Wired
16	white-sided dolphin	1	groundfish, nk	2005	3	ME	Cumberland	NE	515	3	6:29	5.80	3.15	0.10	201.60	112	Continuous Layers of Clouds	15	2	104	700	3.20	NA	Unknown
17	white-sided dolphin	1	monkfish	2005	3	MA	Suffolk	NE	522	10	:27	5.20	3.71	0.25	212.40	118	Continuous Layers of Clouds	30	8	119	425	2.40	NA	Unknown
18	white-sided dolphin	1	haddock	2005	3	MA	Bristol	NE	521	15	7:25	1.70	4.12	0.42	181.80	101	Continuous Layers of Clouds	20	8	111	674	3.00	NA	Unknown
19	white-sided dolphin	1	haddock	2005	3	MA	Bristol	NE	521	15	23:45	4.80	4.09	0.46	165.60	92	Partly Cloudy	1	1	166	678	4.70	NA	Unknown
20	white-sided dolphin	1	haddock	2005	3	MA	Bristol	NE	521	16	9:25	4.10	4.22	0.19	169.20	94	Continuous Layers of Clouds	6	2	166	678	4.60	NA	Unknown
21	white-sided dolphin	1	haddock	2005	4	MA	Bristol	NE	522	6	5:35	3.80	4.56	0.54	181.80	101	Clear	0	4	111	674	3.00	NA	Unknown

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22	white-sided dolphin	1	monkfish	2005	4	MA	Suffolk	NE	515	1	8:24	5.50	2.61	0.10	219.60	122	Continuous Layers of Clouds	10	3	142	850	3.00	NA	Unknown
24	white-sided dolphin	1	monkfish	2005	4	MA	Bristol	NE	522	15	18:27	5.60	4.49	0.09	219.60	122	Clear	8	5	144	500	2.50	NA	Unknown
25	white-sided dolphin	1	witch flounder	2005	4	ME	Cumberland	NE	521	3	11:44	6.50	4.36	0.12	189.00	105	Continuous Layers of Clouds	25	7	193	1280	3.10	NA	Unknown
26	white-sided dolphin	1	monkfish	2005	4	MA	Bristol	NE	522	28	1:10	4.00	4.28	0.26	181.80	101	Clear	7	2	136	1000	2.90	NA	Wired
27	white-sided dolphin	1	groundfish, nk	2005	4	MA	Essex	NE	561	30	23:15	5.40	4.17	0.07	153.00	85	Continuous Layers of Clouds	15	5	168	775	2.80	NA	Unknown
28	white-sided dolphin	1	groundfish, nk	2005	5	ME	Cumberland	NE	521	1	18:58	4.60	3.98	0.53	221.40	123	Continuous Layers of Clouds	15	2	188	850	2.80	NA	Unknown
29	white-sided dolphin	1	monkfish	2005	5	MA	Suffolk	NE	515	30	4:17	4.60	5.59	0.21	208.80	116	Fog or Thick Haze	0	1	180	775	2.70	NA	Unknown
30	white-sided dolphin	1	monkfish	2005	5	MA	Suffolk	NE	522	1	21:01	6.10	4.55	0.14	183.60	102	Continuous Layers of Clouds	10	3	180	775	2.70	NA	Unknown
31	white-sided dolphin	1	haddock	2005	6	ME	Cumberland	NE	522	14	11:12	0.70	10.74	0.72	73.80	41	Partly Cloudy	5	2	99	443	2.90	NA	Wired
32	white-sided dolphin	1	haddock	2005	6	ME	Cumberland	NE	522	17	4:00	5.20	11.31	0.24	165.60	92	Drizzle	5	3	99	443	3.80	NA	Wired
33	white-sided dolphin	1	monkfish	2005	6	MA	Bristol	NE	522	9	16:12	4.70	11.33	0.07	212.40	118	Fog or Thick Haze	5	1	166	720	3.00	NA	Unknown
34	white-sided dolphin	1	haddock	2005	6	ME	Cumberland	NE	522	5	18:37	4.20	8.92	0.09	54.00	30	Fog or Thick Haze	0	1	159	625	3.00	NA	Unknown
35	white-sided dolphin	1	haddock	2005	6	ME	Cumberland	NE	522	6	4:31	4.90	12.12	0.72	93.60	52	Fog or Thick Haze	5	4	159	625	3.00	NA	Unknown
36	white-sided dolphin	1	haddock	2005	7	ME	Cumberland	NE	522	11	12:20	3.70	16.35	0.28	104.40	58	Clear	5	4	188	850	3.00	NA	Unknown
37	white-sided dolphin	1	haddock	2005	7	ME	Cumberland	NE	522	14	23:05	2.30	16.80	0.12	108.00	60	Rain and Fog	10	4	188	850	3.00	NA	Unknown
38	white-sided dolphin	1	haddock	2005	7	ME	Cumberland	NE	522	17	5:55	5.60	17.69	0.18	162.00	90	Partly Cloudy	10	3	188	850	3.00	NA	Unknown
39	white-sided dolphin	1	groundfish, nk	2005	10	MA	Essex	NE	515	5	:28	8.00	17.55	0.14	216.00	120	Fog or Thick Haze	5	0	95	455	2.60	NA	Unknown
40	white-sided dolphin	1	long-fin squid	2005	11	RI	Newport	MidAtl	616	4	5:35	3.60	20.76	2.51	154.80	86	Partly Cloudy	15	4	129	365	2.90	NA	Unknown
41	white-sided dolphin	2	haddock	2005	6	ME	Cumberland	NE	522	18	6:15	3.60	11.51	0.16	120.60	67	Clear	9	3	99	443	2.90	NA	Wired
42	white-sided dolphin	7	monkfish	2005	3	MA	Suffolk	NE	522	11	17:36	4.80	1.88	0.19	226.80	126	Blowing Snow	20	4	119	425	2.00	NA	Unknown
43	pilot whale	1	long-fin squid	2005	4	NJ	Ocean	MidAtl	616	6	6:00	2.50	8.55	0.44	149.40	83	Clear	5	2	137	624	3.00	NA	Unknown

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44	pilot whale	1	long-fin squid	2005	4	NJ	Ocean	MidAtl	616	6	9:37	2.20	8.55	0.44	149.40	83	Clear	10	4	137	624	3.00	NA	Unknown
45	pilot whale	1	long-fin squid	2005	4	RI	Washington	MidAtl	537	6	14:10	3.50	4.95	1.81	144.00	80	Clear	7	3	164	800	3.20	NA	Wired
46	pilot whale	1	long-fin squid	2005	4	RI	Washington	MidAtl	616	6	18:08	2.60	5.01	0.61	171.00	95	Clear	5	2	164	800	3.20	NA	Wired
47	pilot whale	1	groundfish, nk	2005	9	MA	Essex	NE	521	7	5:15	5.90	18.90	0.21	162.00	90	Clear	15	2	79	520	3.00	NA	Unknown
48	pilot whale	1	groundfish, nk	2005	10	MA	Essex	NE	515	1	15:55	7.70	20.50	0.10	223.20	124	Partly Cloudy	5	1	95	455	2.60	NA	Unknown
49	pilot whale	1	cod	2005	11	ME	Cumberland	NE	522	11	4:05	5.10	9.98	0.27	162.00	90	Partly Cloudy	35	10	159	625	3.00	NA	Wired
50	pilot whale	1	groundfish, nk	2005	12	RI	Newpoprt	NE	522	17	11:20	4.70	6.77	0.20	66.60	37	Partly Cloudy	14	5	147	565	3.80	NA	Unknown
51	common dolphin	1	flounder, nk	2005	2	ME	Cumberland	NE	515	4	18:44	6.90	5.02	0.04	244.80	136	Continuous Layers of Clouds	20	7	192	620	3.20	NA	Unknown
52	common dolphin	1	flounder, nk	2005	2	MA	Suffolk	NE	514	9	17:31	6.10	5.01	0.08	277.20	154	Partly Cloudy	5	2	180	775	2.60	NA	Unknown
53	common dolphin	1	flounder, nk	2005	2	MA	Suffolk	NE	515	12	6:29	6.20	4.26	0.06	261.00	145	Partly Cloudy	15	6	180	775	2.60	NA	Unknown
54	common dolphin	1	monkfish	2005	8	MA	Bristol	NE	562	6	4:36	7.10	19.14	0.28	99.00	55	Fog or Thick Haze	5	3	82	425	2.30	NA	Unknown
55	common dolphin	1	long-fin squid	2005	11	RI	Washington	NE	525	17	22:40	5.20	10.76	0.32	136.80	76	Partly Cloudy	20	5	194	1350	3.10	NA	Wired
56	common dolphin	1	long-fin squid	2005	12	MA	Bristol	MidAtl	537	3	12:48	3.00	13.47	0.40	162.00	90	Rain	35	12	199	850	4.00	NA	Wired
57	common dolphin	2	short-fin squid	2005	10	RI	Washington	MidAtl	537	6	9:26	2.90	17.10	0.01	54.00	30	Continuous Layers of Clouds	10	2	144	500	3.10	NA	Unknown
58	common dolphin	2	long-fin squid	2005	12	RI	Washington	MidAtl	616	11	16:15	3.60	11.55	0.11	127.80	71	Partly Cloudy	10	5	160	960	3.10	NA	Unknown
59	common dolphin	3	long-fin squid	2005	1	RI	Washington	MidAtl	622	30	3:35	4.30	11.70	0.38	127.80	71	Partly Cloudy	5	3	157	900	2.90	NA	Wired
60	common dolphin	7	long-fin squid	2005	1	RI	Washington	MidAtl	622	29	14:33	3.60	11.19	0.97	124.20	69	Partly Cloudy	10	5	157	900	3.00	NA	Wired

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Ref #	Transducer Brand	Wireout (fa)	Scope (fa)	Fishing Circle Mesh Size (in)	# of Mesh in Fishing Circle	Presence of Exluder (includes TEDs)	Working TED Used	Presence of Fish Outlet	Gear Condition	Ground Cable Length (ft)	Headrope Length (ft)	Footrope/ Sweep Length (ft)	Sweep Type	Days Fished	Net Name	Cod Mesh Size (mm)
1	Unknown	275	3.48	465.00	6.5	NO	NA	NO	no gear damage	360	120	140	rubber cookie	0.27	NA	159.00
2	Unknown	350	2.85	465.00	6.5	NO	NA	NO	no gear damage	480	140	160	rubber cookie	0.28	NA	0.00
3	Unknown	300	3.16	420.00	6	NO	NA	NO	no gear damage	360	130	130	rubber cookie	0.21	NA	157.00
4	Unknown	275	2.62	460.00	6	NO	NA	NO	no gear damage	65	204	224	rubber cookie	0.26	NA	152.00
5	Unknown	300	3.13	370.00	6.5	NO	NA	NO	no gear damage	240	200	200	rubber cookie	0.22	NA	204.00
6	Unknown	270	2.39	425.00	6	YES	NA	NO	no gear damage	90	172	200	rubber cookie	0.14	NA	168.00
7	Unknown	300	2.52	370.00	6	NO	NA	NO	hang-up/minor damage	390	120	149	rubber cookie	0.13	NA	148.00
8	Unknown	320	2.44	370.00	6	NO	NA	NO	obstuction in the gear	390	120	149	rubber cookie	0.20	NA	148.00
9	Unknown	220	2.22	unknown	6.5	NO	NA	NO	no gear damage	420	100	120	cable/wire	0.18	NA	163.00
10	Other	450	3.10	340.00	6	NO	NA	NO	no gear damage	408	188	202	rubber cookie	0.07	NA	157.00
11	Unknown	400	2.82	300.00	6	NO	NA	NO	no gear damage	360	140	160	rubber cookie	0.22	NA	149.00
12	Unknown	270	3.00	250.00	6.5	NO	NA	NO	no gear damage	300	70	90	cable/wire	0.19	NA	164.00
13	Unknown	325	3.01	360.00	6	NO	NA	NO	no gear damage	360	150	170	rubber cookie	0.31	NA	167.00
14	Simard	210	2.21	508.00	8	NO	NA	NO	no gear damage	420	239	305	rubber cookie	0.25	NA	166.00
15	Simard	250	3.01	408.00	8	NO	NA	NO	no gear damage	360	161	184	rubber cookie	0.09	NA	143.00
16	Unknown	275	2.46	460.00	6	NO	NA	NO	belly torn >50%	65	204	224	rubber cookie	0.24	NA	0.00
17	Unknown	320	2.71	370.00	6	NO	NA	NO	no gear damage	300	120	149	rubber cookie	0.22	NA	162.00
18	Unknown	300	2.97	360.00	6	NO	NA	NO	parted legs, sweep, or headrope	360	100	114	rubber cookie	0.07	NA	155.00
19	Unknown	300	3.26	250.00	6.5	NO	NA	NO	no gear damage	400	100	120	rubber cookie	0.20	NA	148.00
20	Unknown	300	3.19	250.00	6.5	NO	NA	NO	no gear damage	400	100	120	rubber cookie	0.17	NA	147.00
21	Unknown	300	2.97	unknown	unknown	NO	NA	NO	no gear damage	360	94	114	rubber cookie	0.16	NA	159.00

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22	Unknown	350	2.87	280.00	8	NO	NA	NO	no gear damage	210	175	217	rubber cookie	0.23	NA	203.00
24	Unknown	325	2.66	260.00	6	NO	NA	NO	no gear damage	240	160	180	rubber cookie	0.23	NA	132.00
25	Unknown	325	3.10	480.00	6	NO	NA	NO	no gear damage	300	238	280	rubber cookie	0.27	NA	162.00
26	Simard	275	2.72	410.00	6	NO	NA	NO	wings twisted or torn	300	130	150	rubber cookie	0.16	NA	149.00
27	Unknown	275	3.24	425.00	6.5	NO	NA	NO	major hang up or tear up, or loss of gear	480	140	160	rock hopper	0.22	NA	0.00
28	Unknown	350	2.85	420.00	6.5	NO	NA	NO	no gear damage	300	260	285	rubber cookie	0.19	NA	0.00
29	Unknown	325	2.80	400.00	6	NO	NA	NO	obstuction in the gear	480	236	282	rubber cookie	0.19	NA	153.00
30	Unknown	300	2.94	400.00	6	NO	NA	NO	no gear damage	480	236	282	rubber cookie	0.25	NA	153.00
31	Furuno	150	3.66	400.00	6	NO	NA	NO	no gear damage	360	80	100	rubber cookie	0.03	NA	155.00
32	Furuno	200	2.17	400.00	6	NO	NA	NO	no gear damage	360	80	100	rubber cookie	0.22	NA	155.00
33	Unknown	270	2.29	500.00	6	NO	NA	NO	no gear damage	300	130	150	rubber cookie	0.20	NA	166.00
34	Unknown	150	5.00	434.00	6	YES	NA	YES	no gear damage	360	120	150	rubber cookie	0.18	NA	170.00
35	Unknown	150	2.88	434.00	6	YES	NA	YES	no gear damage	360	120	150	rubber cookie	0.20	NA	170.00
36	Unknown	150	2.59	420.00	6.5	NO	NA	YES	no gear damage	360	118	144	rubber cookie	0.15	NA	149.00
37	Unknown	200	3.33	420.00	6.5	NO	NA	YES	no gear damage	360	118	144	rubber cookie	0.09	NA	149.00
38	Unknown	300	3.33	420.00	6.5	NO	NA	YES	no gear damage	480	260	285	rubber cookie	0.23	NA	149.00
39	Unknown	350	2.92	50.00	6.5	NO	NA	NO	obstuction in the gear	120	180	200	rubber cookie	0.33	NA	155.00
40	Unknown	250	2.91	440.00	6.5	NO	NA	NO	no gear damage	420	101	101	rubber cookie	0.15	NA	120.00
41	Furuno	200	2.99	400.00	6	NO	NA	NO	no gear damage	360	80	100	rubber cookie	0.15	NA	155.00
42	Unknown	320	2.54	370.00	6	NO	NA	NO	belly torn <50%	300	120	149	rubber cookie	0.20	NA	162.00
43	Unknown	250	3.01	unknown	8	NO	NA	NO	No Gear Damage	50	100	120	rubber cookie	0.10	NA	93.00

Information on observed marine mammal takes in bottom trawl gear for 2005.

Ref #	Transducer Brand	Wireout (fa)	Scope (fa)	Fishing Circle Mesh Size (in)	# of Mesh in Fishing Circle	Presence of Exluder (includes TEDs)	Working TED Used	Presence of Fish Outlet	Gear Condition	Ground Cable Length (ft)	Headrope Length (ft)	Footrope/ Sweep Length (ft)	Sweep Type	Days Fished	Net Name	Cod Mesh Size (mm)
44	Unknown	250	3.01	unknown	8	NO	NA	NO	No Gear Damage	50	100	120	rubber cookie	0.09	NA	93.00
45	Simrad	250	3.13	420	6	NO	NA	NO	No Gear Damage	450	105	118	rubber cookie	0.15	NA	156.00
46	Simrad	250	2.63	420	6	NO	NA	NO	No Gear Damage	450	105	118	rubber cookie	0.11	NA	156.00
47	Unknown	275	3.06	360	6	NO	NA	NO	No Gear Damage	360	125	145	rubber cookie	0.24	NA	155.00
48	Unknown	350	2.82	50	6.5	NO	NA	NO	Obstruction in the gear	240	180	200	rubber cookie	0.32	NA	155.00
49	Simrad	300	3.33	360	6	NO	NA	NO	No Gear Damage	360	160	180	bobbin	0.21	NA	162.00
50	Unknown	70	1.89	310	6	NO	NA	NO	No Gear Damage	240	130	150	cable/wire	0.20	NA	164.00
51	Unknown	400	2.94	280	6.5	NO	NA	NO	No Gear Damage	420	250	280	rubber cookie	0.29	NA	150.00
52	Unknown	400	2.60	404	6	NO	NA	NO	No Gear Damage	480	236	282	rubber cookie	0.25	NA	142.00
53	Unknown	400	2.76	404	6	NO	NA	NO	No Gear Damage	480	236	282	rubber cookie	0.26	NA	142.00
54	Unknown	200	3.64	380	6	YES	NA	YES	No Gear Damage	480	80	100	rubber cookie	0.30	NA	144.00
55	Furuno	250	3.29	512	32	NO	NA	NO	No Gear Damage	390	148	164	rubber cookie	0.22	NA	148.00
56	Furuno	260	2.89	unknown	unknown	NO	NA	NO	No Gear Damage	480	120	120	wrapped cable	0.12	NA	150.00
57	Unknown	105	3.50	350	6.5	NO	NA	NO	No Gear Damage	60	80	100	rubber cookie	0.12	NA	148.00
58	Unknown	275	3.87	unknown	38	NO	NA	NO	No Gear Damage	360	183	unknown	rubber cookie	0.15	NA	157.00
59	Furuno	250	3.52	350	15.8	NO	NA	NO	No Gear Damage	120	158	158	rubber cookie	0.18	NA	233.00
60	Furuno	250	3.62	350	15.8	NO	NA	NO	No Gear Damage	120	158	158	rubber cookie	0.15	NA	233.00

Information on observed marine mammal takes in paired trawl gear (Jan. 2005 to Sept. 2006).

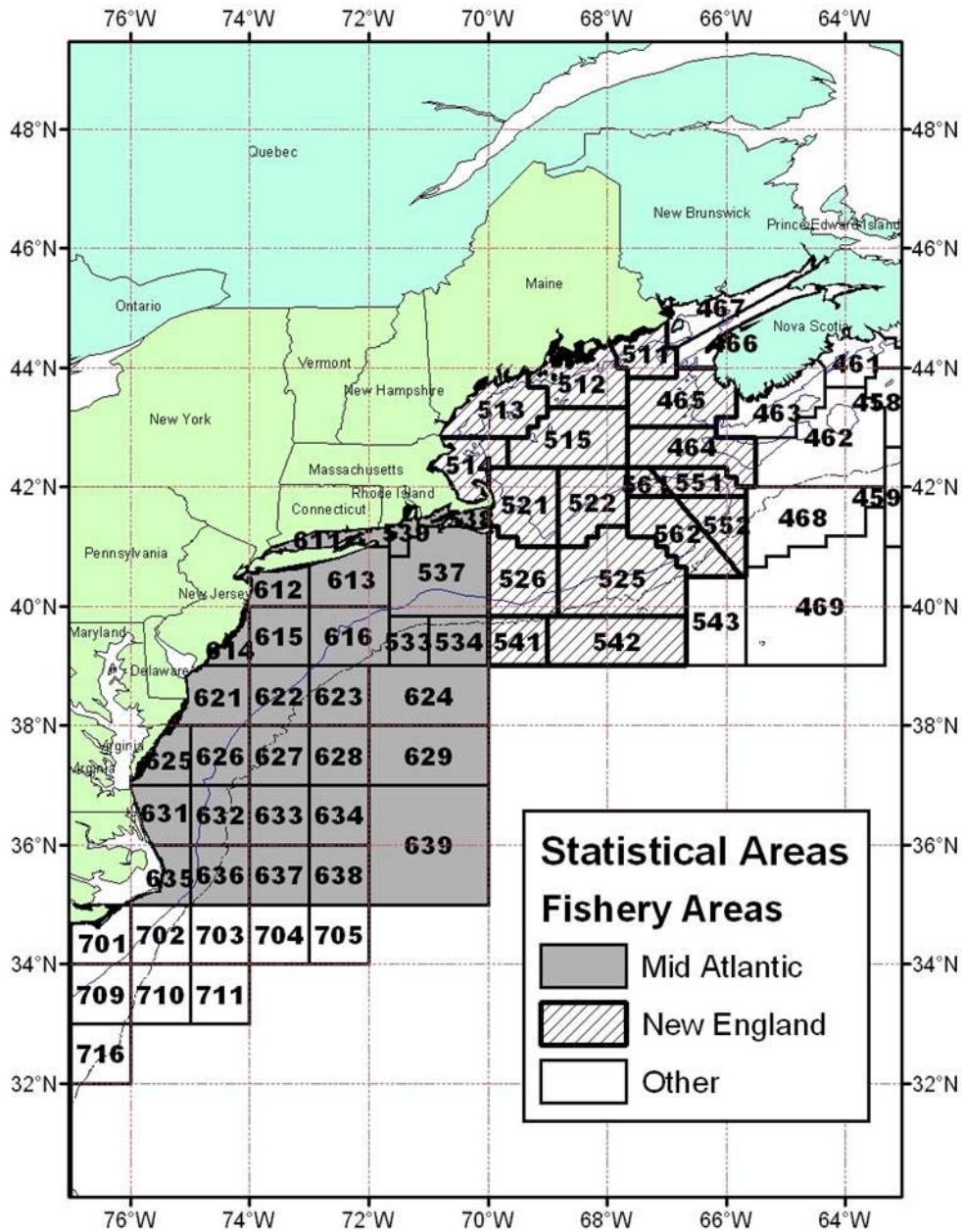
Ref #	take species	# of takes	target species	year	month landed	state	strata	stat area	haul day	haul begin time	haul duration (hr)
61	white-sided dolphin	5	mackerel	2005	3	MA	SNE/MA	621	11	237	2.15
62	white-sided dolphin	3	Atl.herring	2005	9	ME	NE	512	12	1856	5.57
63	white-sided dolphin	2	mackerel	2006	2	MA	SNE/MA	613	10	2	2.20
64	white-sided dolphin	1	mackerel	2006	2	MA	SNE/MA	616	2	1700	3.25

Ref #	SST (C)	bottom slope (deg)	bottom depth (fm)	weather	windspeed (kn)	wave height (ft)	gross tons	vessel horse power	towspeed (kn)	net design	transducer type
61	5.75	0.02	71	clear	10	2	165	1200	3.8	4 seam, equal	wired
62	13.72	0.22	132	partly cloudy	5	4	189	1125	3.5	5 seam, equal	wired
63	7.78	0.03	56	continuous layer of clouds	10	2	195	1550	4.5	6 seam, equal	wired
64	8.89	0.08	56	partly cloudy	15	3	165	1200	3.5	7 seam, equal	unknown

Ref #	transducer brand	wireout (fm)	scope (fm)	Mesh size of fishing circle (cm)	# of meshes in the fishing circle	presence of excluder (includes TEDs)	working TED used	presence of fish outlet	gear condition	ground cable length	head rope length (ft)
61	Simrad	175	2.46	305	10	no	no	no	No Gear Damage	NA	unknown
62	Simrad	25	0.19	163	120	no	no	no	No Gear Damage	NA	168
63	Simrad	160	2.86	610	unknown	no	no	no	No Gear Damage	NA	420
64	Simrad	175	3.13	unknown	unknown	no	no	no	No Gear Damage	NA	300

Ref #	foot rope length (ft)	days fished	net construction	Mesh size in the cod end (mm)
61	unknown	0.09	parallel rope	124
62	unknown	0.23	unknown	unknown
63	420	0.09	large mesh	50
64	300	0.14	large mesh	140

*** No observed marine mammal takes in single trawl gear during Jan. 2005 to Sept. 2006.**



Statistical Areas
Fishery Areas
Mid Atlantic
New England
Other
Quebec
Ontario
New Brunswick
Prince Edward Island
Maine
Nova Scotia
Vermont
New Hampshire
New York
Massachusetts
Rhode Island
Connecticut
Pennsylvania
New Jersey
Maryland
Delaware
Virginia
76°W
74°W
72°W
70°W
68°W
66°W
64°W
48°N
46°N
44°N
42°N
40°N
38°N
36°N
34°N
32°N