

APPENDIX 1. Observer Comments Relating to the Condition of Marine Mammals Observed Caught in 1992-1998 by USA Pelagic Longline Vessels Operating in the North Atlantic<sup>1</sup>.

Common name	area	trip	date	lat	lon	past status	injury code	S.I.	estimated length (cm)	observer's comments
1 pilot whale	NEC	A27	9/3/92	37 12	74 29	alive	10?,13	N	335	Small cut on part of the tail by mainline wrap.
2 pilot whale	NEC	A27	9/4/92	37 10	74 26	alive	10?,13	N	375	Tail cut slightly by mainline.
3 pilot whale	NEC	A27	9/4/92	37 10	74 26	dead			300	Dead, moderately decomposed.
4 dolphin	NEC	A30	6/17/92	39 51	61 55	alive		?	200	Alive, condition unknown.
5 pilot whale	NEC	A02	10/1/92	36 53	74 32	alive	6?,8?	?	300	Seemed to be hooked. If so, it bit off the hook. It could also have been just feeding on discarded bait.
6 pilot whale	NEC	A02	10/5/92	37 03	74 10	alive	8	Y	250	Caught on hook. Gangion cut, hook left in mouth.
7 common dolphin	NEC	A03	10/6/92	39 55	70 05	alive		N	305	Mainline caught on tail, animal unhurt.
8 pilot whale	NEC	A25	12/15/92	36 07	74 38	alive		N	244	Mainline in mouth. Captain pulled mainline and freed whale.
9 pilot whale	NEC	A40	10/22/92	38 59	72 48	alive	10?,11,13	N	250	Tail caught in mainline. Cut off as much gear as possible in rough seas. Swam away, but line had cut into right side of tail flukes, which was bleeding slightly.
10 pilot whale	NEC	A63	11/9/92	37 51	74 00	alive		N		Caught on the mainline. Within ~ 20 ft of the boat it freed itself and swam away.
11 pilot whale	NEC	A63	11/9/92	37 53	74 09	alive	6?,8?,10?	?	305	Caught in a gangion and not necessarily hooked. Line was cut and it swam away.
12 pilot whale	NEC	A63	11/9/92	37 53	74 09	alive	10	Y	366	Tangled in mainline with a wrap or two around its body. It was hauled to the side of the boat and held for about one minute while the line was cut. Swam away, seemingly uninjured.
13 Risso's dolphin	NEC	I02	11/9/92	35 37	74 37	unk	6?,8,10?	Y	300	Caught (hooked) on longline gear - was alive and well; was cut off line and swam away with in a pod of about 20 animals.
14 Risso's dolphin	NEC	I02	11/9/92	35 54	74 20	alive	6?,8,10?	Y	280	Hooked on longline gear - alive and well; line was cut off and swam away. Was in a pod of about 15 animals.
15 pilot whale	NEC	J03	11/4/92	38 05	73 45	alive		?		Alive, condition unknown
16 pilot whale	NEC	J03	11/4/92	38 13	73 50	alive		?		Alive, condition unknown
17 Risso's dolphin	GOM	J04	12/8/92	25 54	84 47	alive		?		Alive, condition unknown
18 spotted dolphin	NEC	A01	1/7/93	35 27	74 49	alive		?		N/A
19 bottlenose dolphin	NEC	A03	2/9/93	35 43	74 43	alive	6?,8?,10?	?	210	Uninjured, immediately swam away after cutting monofilament ~25 ft. from hook.
20 pilot whale	NEC	A03	2/9/93	35 41	74 45	alive	10?	?	250	Mainline wrapped several times around tail - cut free with no apparent injury.
21 Risso's dolphin	GOM	I05	2/14/93	24 56	84 18	dead	5,9,10		200	Animal was tail tied in mainline, drowned - fresh, no decomposition.
22 pilot whale	NEC	A04	5/13/93	39 39	69 04	alive	10?	?	250	Female, tail wrapped. A second female pilot whale was waiting alongside.
23 pilot whale	NEC	A80	6/8/93	35 48	74 26	alive		?	300	Alive, uninjured
24 pilot whale	NEC	A80	6/8/93	35 48	74 26	alive		?	240	Alive, uninjured
25 pilot whale	NEC	A80	6/8/93	35 55	74 30	alive	10?	?	240	Not hooked - tail tangled in mainline. Cut free and swam off.
26 pilot whale	NEC	A80	6/8/93	35 52	74 47	alive		?	210	Alive, uninjured
27 pilot whale	NEC	A80	6/8/93	35 52	74 47	alive		?	240	Alive, uninjured
28 pilot whale	SEC	I10	6/18/93	29 08	79 52	alive	10?	?	200	Animal was in a pod of about 8-10 individuals. Animal was tail tied, cut freed, and swam away alive.
29 Risso's dolphin	NEC	B01	8/7/93	40 16	67 40	alive	10?	?	305	Tail wrapped. Crew cut mainline. Only small amount of monofilament remained on tail. Swam away slowly.
30 pilot whale	NEC	B02	8/15/93	39 17	70 00	alive		N	210	Not hooked, but had a wrap of mainline around caudal peduncle. Released unharmed.
31 Risso's dolphin	NEC	H08	8/2/93	35 22	74 44	alive		?		Alive, condition unknown
32 bottlenose dolphin	NED	M02	7/26/93	43 52	39 53	alive		?	205	Alive, not injured
33 pilot whale	NEC	A02	10/1/93	39 04	72 30	alive		?	244	Alive, condition unknown

Common name	area	trip	date	lat	lon	past status	injury code	S.I.	estimated length (cm)	observer's comments
34 pilot whale	NEC	A11	11/1/93	36 54	74 36	alive	6?,8?,10?	?	195	Leader was cut and animal released unharmed
35 pilot whale	NEC	A11	11/1/93	36 56	74 37	alive		N	180	Wrapped in mainline and float drop, but not hooked. Line was worked free and animal released unharmed.
36 pilot whale	NEC	A11	11/1/93	38 15	73 25	alive	6?,8?,10?	?	210	Leader cut and animal released unharmed.
37 pilot whale	NEC	A14	11/7/93	37 20	74 24	alive	6?,8?,10?	?		Wrapped up but it dove under boat and crew cut line.
38 pilot whale	NEC	A83	12/20/93	35 37	74 23	alive	6?,8,10?	Y	305	Mainline cut and hook, line and snap left in whale.
39 pilot whale	NEC	A88	11/19/93	37 17	74 24	alive		?	750	Alive, uninjured
40 pilot whale	NEC	A02	1/8/94	37 15	74 20	alive		?	210	Alive, condition unknown.
41 pantropical spotted dolphin	GOM	F15	6/20/94	27 37	88 25	alive		N	168	Tail wrapped in a float dropline, The dolphin was brought aboard and the captain removed the line from the tail and successfully released the dolphin, which swam off uninjured.
42 pilot whale	NEC	A28030	8/9/94	39 01	72 41	alive		N	250	Had mainline wrapped around its fluke; one end of the longline was cut while the other was pulled. This removed all of the mainline around the animal and it swam away.
43 pilot whale	NEC	A28030	8/16/94	38 55	72 51	alive	1,10?	Y	250	Foul hooked in the pectoral fin. The gangion was cut and the animal swam away.
44 pilot whale	SEC	A32006	8/11/94	37 15	74 29	alive	6?,8,10?	Y	213	Alive, gear in/around mouth. Took bait, gangion cut, whale freed
45 pilot whale	SEC	A32006	8/11/94	37 15	74 29	alive	6?,8,10?	Y	305	Alive, gear in/around mouth. Took bait, gangion cut, whale freed
46 pilot whale	SEC	A32006	8/11/94	37 15	74 29	alive	6?,8,10?	Y	274	Alive, gear in/around mouth. Took bait, gangion cut, whale freed. Remained at surface about one minute, then swam off.
47 pilot whale	SEC	A32006	8/11/94	37 15	74 29	alive	6?,8,10?	Y	213	Alive, gear in/around mouth. Took bait, gangion cut, whale freed.
48 pilot whale	SEC	A32006	8/11/94	37 15	74 29	alive	6?,8,10?	Y	213	Alive, gear in/around mouth. Took bait, gangion cut, whale freed.
49 pilot whale	SEC	A32006	8/12/94	37 20	74 20	alive	1,10?	Y	213	Foul hooked, cut from gear. Tangled in mainline, cut free, "unharmed".
50 Risso's dolphin	NEC	A32008	8/26/94	38 45	72 54	dead	5,9,10		185	Wrapped in longline gear, mainline wrapped around body immediately adjacent to the flukes
51 pilot whale	NEC	A44004	9/16/94	38 24	73 24	alive	1,10?	Y	300	Foul hooked in dorsal fin and release required cutting the mainline with gangion still attached. Animal was very much alive and swam off strongly.
52 pilot whale	NEC	A44004	9/17/94	38 16	73 30	alive	1?,10	Y	300	Had to be cut from mainline before release with 6 wraps of mainline and part of a gangion around the base of the tail flukes. Animal was alive and in fair condition and when released, sank a few feet before swimming off slowly.
53 pilot whale	NEC	A44004	9/19/94	37 50	73 19	alive	6?,8,10	Y	300	Was hooked in mouth and was hauled towards boat for about 10 minutes before it was cut from the mainline. It swam off strongly trailing approximately 50 fathoms of mainline from its mouth. Unlike previous takes of pilot whales, there were no sightings of additional animals in immediate area.
54 Risso's dolphin	NEC	A44004	9/18/94	38 02	73 17	alive	8,10?	Y	240	Was hooked in mouth and broke gangion from mainline when brought to within 5 yards of boat. ID characteristics included bulbous head, shortened body, falcate fin and uniform light gray color with scars along flanks and head.
55 Risso's dolphin	NEC	A44004	9/21/94	39 52	70 02	alive	1,10	Y	250	Foul hooked in right tail fluke and mainline had to be cut to release. Some trailing mainline and leader still around tail.
56 Risso's dolphin	NEC	A53037	9/21/94	39 55	69 20	alive	1?,6?,8?,10?	Y	300	Removal requires cutting of gear/animal. Alive, gear in/around another single body part.
57 Atlantic spotted dolphin	GOM	F16	7/17/94	29 07	87 20	alive	8	Y	152	Hooked in the corner of the mouth with the gangion line wrapped around its snout 3 times. Successfully unwrapped the line around its snout but the hook remained it. The dolphin swam away hurriedly in what appeared to be very good condition.
58 killer whale	NED	A54003	9/21/94	47 24	40 48	alive	8,10?	Y	375	Fell from gear before exiting water. Alive, gear in/around mouth.
59 pilot whale	NEC	A54005	12/9/94	35 42	74 42	alive	6?,8,10?	Y	250	Alive, gear in/around mouth. Removal requires cutting of gear/animal
60 pilot whale	NEC	A54005	12/9/94	35 42	74 42	alive	1?,10?	Y	250	Alive, gear in/around another single body part. Removal requires cutting of gear/animal
61 Risso's dolphin	NEC	A62002	10/21/94	39 48	69 59	alive	10,11,13	Y	350	Well-tangled about the fluke with a fair amount of mainline. Released with a good portion

Common name	area	trip	date	lat	lon	past status	injury code	S.I.	estimated length (cm)	observer's comments
										of the mainline still wrapped around the fluke. The captain hoisted the animal up and cut the mainline and it went off. It did not appear to be badly injured. There was a little bit of blood dripping from the caudal peduncle as it was hoisted up. The mainline wrapped around the flukes most probably came right off due to the nylon's rigid quality. The captain and crew were extremely careful in approaching the animal and cutting the gear. Probably young because did not display extensive scarring that an adult would characteristically have. The scarring was concentrated around the head, and dorsally to the anterior margin of the tall falcate dorsal. Photos show very well the line wrapped around tail tightly. May indicate injury.
62 Risso's dolphin	NEC	A62002	10/25/94	39 44	70 54	alive	6?,8,10	Y	310	Hooked in the mouth. The captain pulled the gangion to the boat (after a considerable struggle for five minutes) and cut the line. It still had a hook and approximately 7 fathoms of 400 lb test line trailing from its mouth. The scarring of this individual looked to be extensive around the head, indicating an adult in mid to late life.
63 Risso's dolphin	NEC	A62002	10/27/94	39 46	70 56	alive	6?,8,10	Y	230	Probably hooked in the mouth and appeared to be wrapped with line about the midsection of the body quite well. When the gangion was cut, it took off quite sluggishly. Not like the other two individuals we had caught prior during this trip. It seemed to "labor" away as if it had struggled all night long to free itself or was severely tangled about the midsection or tail flukes. It was not a healthy-looking getaway. The other two individuals caught previously this week produced mighty slaps of their flukes as the gangions were cut and scurried away, but this one did not but was rather lifeless. Could have been hooked and entangled early during the set and struggled all night to free itself and thus worn out.
64 pilot whale	NEC	A25041	8/10/95	40 15	67 53	alive	1?,6?,8?,10?	Y	214	Could not tell whether hooked (gangion cut at snap) or just wrapped in line.
65 pilot whale	NEC	A41031	8/9/95	40 20	67 55	alive	6?,8,10?	Y	280	Mouth hooked and line parted as captain attempted to get leader and cut it.
66 Risso's dolphin	NEC	A41031	8/12/95	40 25	67 30	alive	6?,8,10?	Y	225	Surfaced 50 m from boat with hook in mouth. As he swam towards boat, captain grabbed gangion and cut it. Swam away apparently unharmed.
67 pilot whale	NEC	A41032	9/1/95	38 04	73 46	alive	1,10?	Y	300	Foul hooked, cut from gear. Alive, condition unknown.
68 pilot whale	NEC	A44040	8/4/95	37 33	74 10	alive	1,10?	Y	300	Hooked in flipper. Cut from gangion.
69 Risso's dolphin	NEC	A44040	8/13/95	39 25	72 02	alive		N	180	Mainline and gangion wrapped around tail. All gear cut from animal before release.
70 pilot whale	NEC	A44043	9/9/95	39 05	72 30	alive	1,10?	Y	210	Foul hooked in flipper - broke gangion off as it was hauled
71 Risso's dolphin	NEC	A44043	8/31/95	39 43	71 49	alive	6?,8?, 10?	Y	180	Mainline cut from around tail flukes and pulled from mouth. Animal swam off quickly upon release.
72 Risso's dolphin	NEC	A44043	9/7/95	39 05	72 32	alive	10?	Y	210	Mainline cut from around tail flukes. Animal swam off slowly after blowing.
73 Risso's dolphin (mis-identified as pilot whale before)	NED	A53034	9/13/95	46 13	40 07	alive	6?,8,10?	Y	400	Removal required cutting of gear/animal. Alive, gear in/around mouth. Animal came in on line. Appeared to be a pilot whale in size and shape. However animal was grey in color and had markings on back like a Risso's dolphin. Did not see indented head and was not able to see lower jaw. Animal was alive and appeared in good condition. Animal moved very quickly away from vessel after being cut free. Photos show Risso's dolphin and not the pilot whale reported in the incidental take log, but cannot discern manner of entanglement or animal condition.

Common name	area	trip	date	lat	lon	past status	injury code	S.I.	estimated length (cm)	observer's comments
74 pilot whale	NEC	A62058	8/13/95	37 01	74 31	alive	6?,8,10?	Y	270	The whale jumped enough out of the water to see its upper flank and head. The animal was tethered to the mainline via a gangion, with hook stuck inside the mouth. The animal went under and the captain cut the gangion freeing the animal. This individual was probably a 2nd year sub-adult. It was freed with the hook in its mouth. It took off like an arrow when the gangion was cut. The observer commented that the only concern about this animal is the possibility of infection from the hook wound in the mouth, or hindrance of feeding efficiency due to the gear hanging from its mouth, if it was not dislodged. Also, this was the 4 out of 7 trips in which this observer has seen a marine mammal foul hooked in the mouth. Marine mammals taking the longline bait have been observed to devour everything but the gill plates, with hook stuck in either the lower or upper maxilla.
75 pilot whale	NEC	A62058	8/14/95	37 09	74 24	alive	6?,8?10, 13?	Y	250	Thoroughly and extensively wrapped. Quite a bit of mainline around its caudal peduncle. No evidence of having been hooked in its mouth or head. It was pulled up to the boat. The tangle of line around its peduncle was cut at, with little success. It was tight. We cut some outer strands and it severed the line leading to the vessel, and free line from the animal into the depths of the ocean. Young individual. Left side of vessel with deep breath and a powerful flick of the flukes and dove underneath the vessel. Appeared to be in fairly good shape.
76 shortfin pilot whale	NEC	A62071	9/28/95	38 28	73 30	alive	1,10?	Y	325	Instead of having only the gangion wrapped around the caudal peduncle, the hook was imbedded into the peduncle itself. Only one or two wraps of the gangion along with the imbedded hook were left in the animal. The animal was pulled to the boat where unsuccessful attempts were made to dislodge the hook. The animal slowly moved away from the vessel as opposed to an aggressive kick of the tail and a dive. Lingered at the surface for nearly 1.5 minutes while boat steamed away and continued hauling in the gear. (Observer) feared the animal was exhausted physically and stressed out by the whole ordeal. This individual was full-grown. "This was probably the only time (the observer) actually fear for the health and safety of an incidentally-taken marine mammal."
77 shortfin pilot whale	NEC	A62071	9/28/95	38 29	73 28	alive	1?,6?,8, 10?	Y	225	This young individual was hooked in the mouth. (Observer) could not exactly tell where (upper or lower mandible), however, it was clear this was the case. Obviously, this young individual was after the squid THAT was the bait the vessel was using. As we were coming upon the animal, it surfaced 3 times upside down. (Observer) had never seen this before in an entanglement situation with a pilot whale. The individual was pulled to the vessel with the intention of extracting the hook from its mouth. However, it was too strong. Thus, it was pulled as close to the vessel as possible and the gangion clipped as close to the mouth as possible. This animal shot off like a bullet to the deep as the gangion was cut.
78 unidentified	NEC	F29	8/5/95	39 24	72 17	alive	1?,6?,8?10?	?	274	The mammal was not seen by the observer until it swam off. The crew was pulling in the gangion and then noticed it was, as they identified it, a whale. There were large unidentified dolphins in the area also. The mammal pulled itself free at the same time the crew noticed it was a mammal.
79 pilot whale	NEC	A41034	10/14/95	37 00	74 36	alive	1?,6?,8?10?	?	250	As leader came to block, line stretched and snapped. Animal swam away after breaking off.
80 pilot whale	NEC	A41034	10/14/95	35 43	74 37	alive	6?,8,10?	Y	250	Mouth hooked. Captain cut leader and it disappeared.
81 pilot whale	NEC	A41034	10/14/95	35 46	74 42	alive	6?,8?,10?	Y	250	Freed by cutting leader.
82 pilot whale	NEC	A41034	10/14/95	35 46	74 42	alive	1?,6?,8?10?	Y	250	Freed by cutting leader. When freed, it swam directly to join three other waiting animals and swam away together.
83 pilot whale	NEC	A44048	10/16/95	37 45	73 25	alive	6?,8,10?	Y	180	Animal cut from line, hooked in mouth. Swam off trailing gangion and 100 ft of mainline.

84 pilot whale	SEC	T12	10/28/95	26 42	79 40	alive	1?,10?	?	190	Entangled in mainline; monofilament cut away; whale swam away.
85 Risso's dolphin	GOM	F38	7/28/96	29 01	87 47	dead	10			Muscle tissue sample was taken from the head, and the lower jaw was also saved. The animal was entangled in the mainline and brought aboard dead.
86 Risso's dolphin	NEC	F39	8/30/96	39 24	72 17	alive		N	213	Mainline wrapped around flukes. Unwrapped flukes. Swam away uninjured.
87 Risso's dolphin	NEC	F39	8/30/96	39 24	72 17	alive		N	213	Mainline wrapped around flukes. Unwrapped flukes. Swam away uninjured.
88 Risso's dolphin	NEC	F39	8/30/96	38 15	73 18	alive	6?,8,10?	Y	244	Hooked in mouth. Line cut - 914 cm of line left attached (animal pulling very lively). Swam away uninjured.
89 unidentified	SEC	K17	12/14/96	30 26	76 55	alive		N		Unidentified mammal was tangled in line. Black tail section seen just before dive; animal was free with no line attached.
90 short-beaked spinner dolphin	SEC	F45	2/25/97	32 10	78 03	alive	10?	N	183	Tail wrapped in mainline. Mainline cut free. Animal swam away healthy.
91 pilot whale		B10045	8/3/97	39 12	72 25	alive	13	N	366	Small pilot whale brought up; animal sluggish but swimming at side of vessel. Gear was tangled and wrapped around flukes only. Mainline and gangions were cut and all gear was removed. Animal then swam slowly away. Only injury suffered were small lacerations around flukes from gear, no knives used to free animal.

Common name	area	trip	date	lat	lon	past status	injury code	S.I.	estimated length (cm)	observer's comments
92 bottlenose dolphin	NEC	L22	1/15/98	36 07	74 43	N/A	10?	N	250	female; when released dove straight down and did not come up in the vicinity of the boat: tail flipper entangled in mainline; 3 wraps on tail; no visible injury.
93 bottlenose dolphin	GOM	P34	1/12/982	26 50	92 19	N/A	6?,8,10	Y	210	hooked in mouty; excellent strength; approx. 70 ft. line cut off to release animal; also has a swivel in line attached to trailing gangion.
94 Risso's dolphin	NEC	L26	8/1/98	39 06	72 36	N/A	8,10?	Y	250	hooked in lip; swam away strongly; cooperated by not struggling; cut leader and freed; no bleeding evident.
95 Risso's dolphin	NEC	L26	8/1/98	38 48	72 53	N/A		N	250	tail wrapped; retrieved and cut mono away; swam away strongly; no serious injury sustained; no bleeding evident.
96 pilot whale	NEC	L28	10/11/98	38 35	73 09	N/A		N	300	tail entangled in mainline; removed and swam away
97 beaked whale	CAR	T41	12/7/98	20 22	73 34	N/A		N	455	unidentified whale; possibly bottlnose, entered as beaked whale; wrapped only in mainline; unwrapped; swam away freely, good condition (some fatigue).

<sup>1</sup> Information taken from:

Yeung, C. 1999. Estimates of marine mammal and marine turtle bycatch by the U.S. Atlantic pelagic longline fleet in 1998. NOAA Technical Memorandum NMFS-SEFSC-430, 26 pp.

Yeung, C. 1999. Revised Mortality Estimates of Marine Mammal Bycatch in 1992-1997 based on Serious Injury Guidelines. NOAA Technical Memorandum NMFS-SEFSC-429, 23 pp.

Johnson, D. R., C. Yeung, C. A. Brown. 1999. Estimates of marine mammal and marine turtle bycatch by the U.S. Atlantic pelagic longline fleet in 1992-1997. NOAA Tech. Mem NMFS-SEFSC-418, 70 pp.

**Table notes:**

Common name of species taken, geographic area (area) of bycatch ( northeast coastal (NEC); southeast coastal (SEC); northeast distant (NED); Gulf of Mexico (GOM); Carribean (CAR)), unique trip identifier (TRIP #), date landed, latitude (Lat), longitude (Lon), and estimated body length are given. Past status refers to the classification of the animal as "dead", "alive", or "unk(nown)" in Table 6 of Johnson *et al.* (1999) for the 1992-1997 data. Injury codes 1-15 refer to criteria used to classify animals as "seriously injured":

- |  |  |   |
|--|--|---|
| 1=Loss of/damage to appendage/jaw        | 2=Inability to use appendage(s)                      | 3=Asymmetry in body shape                   |
| 4=Rupture/puncture of eyeball            | 5=Inability to swim or dive                          | 6=Ingestion of gear                         |
| 7=Mouth is bound by the gear             | 8=Cetacean is hooked internally (e.g., in the mouth) | 9=Animal is anchored                        |
| 10=Line/net entangling the animal        | 11=Visible blood flow.                               | 12=Swelling or hemorrhage.                  |
| is likely to further entangle the animal | 13=Laceration.                                       | 14=Listlessness/inability to defend itself. |
|  | 15=Equilibrium imbalance.                            |   |

A "?" beside the code number indicates that such injury was probably sustained. Animals with types of injury matching at least one of criteria 1-10 were considered to be seriously injured (S.I. = 'Y') and were assumed to have died. Other types of injury were not considered serious (S.I. = 'N') and the animal was assumed to have survived.