Date first obser	ved entangled	06 Jan 1996		
(date seen prior	r without gear)	(03 Oct 1995)		
Sex Female	Birth year	1987	Age at entanglement	9

Species Right Whale

Whale ID Eg #1707

Casa study ID	CCS	NMFS	GEAR ID
Case study ID			
Gear sample collected?	No	Gear type	

Reproductive prior	No				
Reproductive af	Yes				
	Moderate				
Wound coverity	Mouth	Head/ Rostrum	Flippers	Body	Flukes
Wound severity	Unknown	Low	Unknown	Medium	Low
Duration of time	carrying gear	Minimum 10	days, maximu	ım 306 da	ys
	No				
	Presumed de	ead - Last sigh	nted in 199	8	
Number of prior entangleme	nt interactions	1			

Entanglement configuration	Rope wrapped at mid body and trailing ~ 200 feet behind whale.
Anchoring point(s)	Body.
Gear configuration confidence	Low
Remaining questions	Unsure if mouth and/or flippers involved.
Comments	Gear was shed when sighted 7 months later. She had a calf ~11 months after first entanglement sighting indicating she was likely pregnant when she first became entangled. She developed lesions on the head region when with her calf, was sighted only once one year later and then disappeared.



06 Aug 1996 NEA

•				·	
	Date first obser	ved entangled	09 Mar 1996		
	(date seen prio	r without gear)	(03 Oct 1995)		
	Sex Male	Birth vear	Unknown	Age at entanglement 5+	

Species Right Whale

Casa study ID	CCS	NMFS	GEAR ID
Case study ID		E96-2	J030996
Gear sample collected?	Yes	Gear type Lobster	

Reproductive prior to/af					
	Severe				
Ent	High				
Wound coverity	Mouth	Head/ Rostrum	Flippers	Body	known Medium
Wound severity	Medium	High	Medium	Unknown	Medium
Duration of time	carrying gear	Minimum 85	days, maxim	um 115	
	Disentangled?	No			
	Dead in 1996	3			
Number of prior entangleme	1				

Entangleme	ent configuration	Single line extended both sides of the mouth and also was loosely wrapped around tail with a single lobster pot attached.
An	choring point(s)	Mouth and tail
Gear configuration confidence		High
Remaining questions		
Comments		A 3 meter gash on the back and broken skull indicates the animal was likely killed by ship strike.
	Polymer type	PP
G	ear component	Vertical
Rope diameter (inches)		3/8 (0.346)
Breaking	Tested	1 442
strength (lbs)	New	2 430







10 Mar 1996

10 Mar 1996

10 Mar 1996



FORENSIC ANALYSIS OF ROPES WHALE ENTANGLEMENT PROJECT

SPECIMEN ID NO.

NMFS NO.

J030996 E96-2

Gear Description:

A tangle of lines inside the bent trap. Included were a length of $^3/_8$ inch orange PP 3-strand with a green marker yarn (a), a piece of $^7/_{16}$ inch black PP with a green marker yarn (b) with a tensile break at one end. The orange PP 3-strand was the only specimen taken and photographed; the others were just measured at the site.





Rope description:

J030996-a: The ³/₈ inch orange PP 3-strand had a green marker yarn in one strand and 4 rope yarns per strand. The retrieved line segment was in good condition. However the part in the trap was moderately damaged.

Tested (T) or adjusted (A) strength	Typical new strength	Rope condition
1,442 lbs (T)	2,430 lbs	Good



³/₈ inch orange PP 3-strand with green marker yarn- good condition.

J030996-b: A $^5/_{16}$ inch PP/PET 3-strand with black PP rope yarns in parallel with the white PET rope yarns. Another example of 'Easy Haul'.

Sample not tested.

Date first obser	ved entangled	07 Jan 1997	
(date seen prior	r without gear)	(27 Sep 1996)	
Sex Female	Birth year	1987	Age at entanglement 10

Species Right Whale

Coop atual LD	PCCS	NMFS	GEAR ID
Case study ID		E15-97	
Gear sample collected?	No	Gear type Gi net	

Reproductive prior	Yes				
Reproductive af	Yes				
	Minor				
Wound coverity	Mouth	Head/ Rostrum	Flippers	Body	Flukes
Wound severity	Low	None	Unknown	None	Low
Duration of time	carrying gear	Minimum 67	days, maximu	ım 955 da	ys
	No				
	Alive - Last s	ighted in 2013	3		
Number of prior entangleme	nt interactions	3			

Entanglement configuration	Single line exiting right mouth ending at right flank with a cluster of small black gillnet float buoys visible.
Anchoring point(s)	Mouth
Gear configuration confidence	High
Remaining questions	None
Comments	Gear eventually shed.



06 Sep 1997 NEA



06 Sep 1997 NEA

Date first obser	ved entangled	12 Apr 1997	
(date seen prior without gear)		(24 Feb 1997)	
Sex Male	Birth year	1985	Age at entanglement 12

Species Right Whale

Coop study ID	PCCS	NMFS	GEAR ID
Case study ID			
Gear sample collected?	No	Gear type	

Reproductive prior to entanglement detection?					
Reproductive after entanglement detection?					
	Entangle	ment severity	Moderate		
Wound coverity	Mouth	Head/ Rostrum	Flippers	Body	Flukes
Wound severity	Low	Medium	Unknown	None	Low
Duration of time carrying gear		Minimum 1 day, maximum 360 days			
Disentangled?		No			
Status		Presumed dead - Last sighted in 1999			9
Number of prior entangleme	nt interactions	4			

Entanglement configuration	Single rope anchored at mouth and/or flipper and trailing along body to just forward of the flukes. One line also visible over aft part of head.
Anchoring point(s)	Mouth and/or right flipper
Gear configuration confidence	Low
Remaining questions	Anchoring points and configuration of gear at head.
Comments	Gear was shed four months after initial sighting. Animal
	in very poor condition at last sighting two years after entanglement. Cause of decline uncertain.



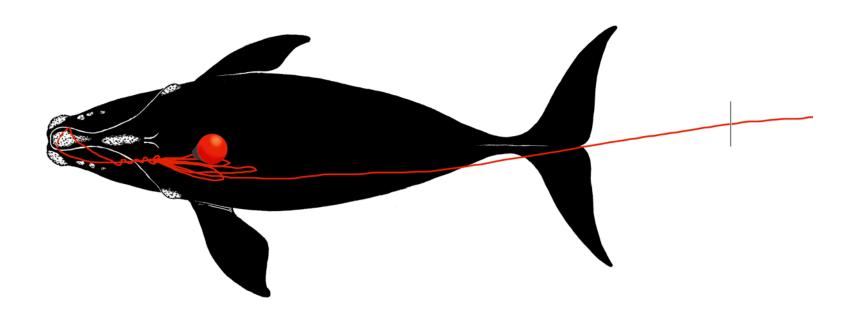
1997 Apr 12 NEA



_					<u>'</u>	
	Date first observe					
	(date seen prior without gear)		(20 Aug 19	996)		
	Sex Male	Birth year	1989		Age at entanglemen	t 8

Species Right Whale

Coop study ID	PCCS	NMFS		GEAR ID
Case study ID		E9-97		J062497 a-c
Gear sample collected?	Yes	Gear type Lobster offsho		ffshore



Reproductive prior to/af					
Entanglement injury severity			Moderate		
Entanglement configuration risk			High		
Mound oppositu	Mouth	Head/ Rostrum	Flippers	Body	Flukes
Wound severity	Medium	Medium	None	Medium	Medium
Duration of time carrying gear		Minimum 22 days, maximum 346 days			
Disentangled?		Yes - 24 Jun 1997			
Status		Alive - Last sighted in 2016			
Number of prior entangleme	nt interactions	1			

Entanglement configuration	Whale free swimming; line caught around forward part of upper jaw leading to a triangle of line and balloon buoy; line trailing to ~60feet.
Anchoring point(s)	Mouth
Gear configuration confidence	High
Remaining questions	None
Comments	Disentanglement was extremely difficult with whale towing fishing vessel in reverse and defending itself with head and flukes.

Polymer type		PP/PET	PP/PE	PP
Gear component		Vertical	Vertical	Surface sys
Rope diameter (inches)		1/2 (0.512)	9/16 (0.575)	9/16 (0.551)
Breaking	Tested	3 648	1 580	4 381
strength (lbs)	New	4 500	5 000	4 590



24 Jun 1997 PCCS



24 Jun 1997 PCCS



24 Jun 1997 PCCS



24 Jun 1997 PCCS



03 Aug 1997 NEA

FORENSIC ANALYSIS OF ROPES WHALE ENTANGLEMENT PROJECT

SPECIMEN ID NO. NMFS NO.

J062497 E9-97

Gear Description:

Buoy application, perhaps offshore.

Buoy gear set. Under buoy line (a) is relatively short and soft, and is spliced into a long soft orange PP line (b). Line (c) was also lone, had a hard lay and was part of the set. Line (a) is moderately negative (sp gr 1.01), line (b) is floating (sp gr 0.92) and line (c) is very negative with a sp gr of about 1.3.

All lines are relatively large compared to most in this study.



Rope description:

J062497-a: This is a $^{1}/_{2}$ inch 3-strand PP/PET combo line. The lay is moderately soft. It has a small gold marker yarn in one strand. There are 6 rope yarns per strand. It has moderate wear.

Tested (T) or adjusted (A)	Typical new strength	Rope condition
strength		
3,648 lbs (T)	4,500 lbs	Good

J062497-b: This is a $^9/_{16}$ inch 3-strand orange PP with a green marker yarn. There are 14 rope yarns and a center yarn per strand. It has a soft lay. The condition is fair.

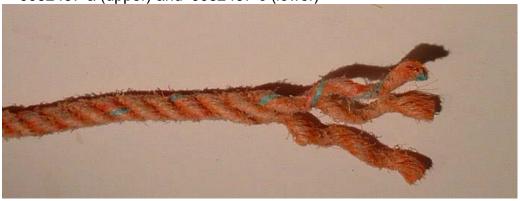
Tested (T) or adjusted (A) strength	Typical new strength	Rope condition
1,580 lbs (T)	5,000 lbs	Poor

J062497-c: This is a $^9/_{16}$ inch 3-strand PP/PET combo line dominated by heavier PET. It has small red and black marker yarns. It has a hard lay and 8 rope yarns per strand.

Tested (T) or adjusted (A) strength	Typical new strength	Rope condition
4,381 lbs (T)	4,590 lbs	Good



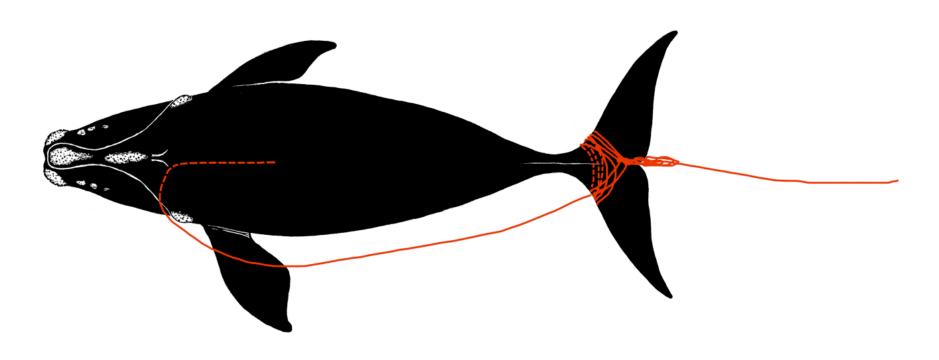
J062497-a (upper) and J062497-c (lower)



J062497-b

	Species Right Whale		Wh	ale ID	Eg #2212			
	Date first observed entangled		23 Aug 19	97				
	(date seen prior without gear)		(16 Aug 19	96)				
	Sex	Male	Birth year	1992		Age	at entanglement	5

Casa study ID	PCCS	NMFS	GEAR ID
Case study ID		E20-98	J072498 a-b
Gear sample collected?	Yes	Gear type	



Reproductive prior to/after entanglement detection? Entanglement injury severity Severe Entanglement configuration risk High Mouth Head/ Rostrum Flippers Body Flukes
Entanglement configuration risk High Mayth Head/ Stignage Badty Styles
Mauth Head/ Fliancus Body Fluides
Mouth Head/ Flippers Body Flukes
I I I I I I I I I I I I I I I I I I I
Wound severity Low None Unknown None High
Duration of time carrying gear Minimum 335 days, maximum 705 days
Disentangled? Yes - partially 24 Jul 1998
Status Presumed dead - Last sighted in 1998
Number of prior entanglement interactions 3

Entanglement configuration	Whale free swimming with multiple wraps of the tailstock; tangle of line aft of the flukes trailing no greater than half a body length. At subsequent sightings line determined to be in mouth and down gullet.
Anchoring point(s)	Flukes
Gear configuration confidence	Moderate
Remaining questions	
Comments	Whale in very poor condition at time of disentanglement.

Polymer type		PP	PP
Gear component			
Rope diameter (inches)		5/16 (0.339)	5/16 (0.339)
Breaking	Tested	680	644
strength (lbs)	New	1 700	1 700



29 Aug 1997 NEA



4 Sep 1997 NEA



12 Sep 1998 PCCS

FORENSIC ANALYSIS OF ROPES WHALE ENTANGLEMENT PROJECT

SPECIMEN ID NO.

NMFS NO.

J072498 E20-98

Gear Description:

Orange PP 3-strand knotted to black PP 3-stand. Black line in poor condition with knots, kinks. and brittleness in the fibers. The black line shows a tensile failure at one end. Both lines are $^{5}/_{16}$ inch and relatively long.



Rope description:

J072498-a $\frac{5}{16}$ inch orange 3-strand PP. Laid relatively hard and in poor condition. There are 9 rope yarns plus a center yarn. The filaments are brittle.

Tested (T) or adjusted (A)	Typical new strength	Rope condition
strength		
680 lbs (A)	1,700 lbs	Poor



J072498-b $^{5}/_{16}$ inch black 3-strand PP. Laid relatively hard and in poor condition with permanent kinks knots and abrasion. Line displays tensile failure in center and lower right in photo.

Tested (T) or adjusted (A)	Typical new strength	Rope condition
strength		
644 lbs (T)	1,700 lbs	Poor



Date first obser	ved entangled	29 Aug 1997		
(date seen prior without gear)		(08 Feb 1996)		
Sex Female	Birth year	1995	Age at entanglement	2+

Species Right Whale

Whale ID Eg #2557

Coop study ID	PCCS	NMFS	GEAR ID
Case study ID			
Gear sample collected?	No	Gear type	

Reproductive prior to entanglement detection			No		
Reproductive after entanglement detec			No		
Entanglement severity			Severe		
Wound severity	Mouth	Head/ Rostrum	Flippers	Body	Flukes
	Low	None	High	Low	Medium
Duration of time carrying gear		Minimum 21	days, maximu	ım 588	
	No				
Status		Presumed dead - Last sighted in 1997			
Number of prior entangleme	nt interactions	0			

Entanglement configuration	Two lines exiting right mouth and then crisscrossed over back. One line appears to go to left flipper which appears white under water. The other line goes under left side of body further aft.
Anchoring point(s)	Mouth, flipper
Gear configuration confidence	Low
Remaining questions	Level of flipper involvement, trailing line.
Comments	Animal in poor condition when first sighed entangled, seen for three days over the course of one month and not seen again.



29 Aug 1997 ECE



19 Sep 1997 NEA



19 Sep 1997 NEA



19 Sep 1997 NEA



19 Sep 1997 NEA

Date first obser	ved entangled	12 Sep 1997		
(date seen prior	r without gear)	(26 Aug 1997)		
Sex Male	Birth vear	1990	Age at entanglement	7

Species Right Whale

Case study ID	PCCS	NMFS		GEAR ID
		E24-97		J091297
Gear sample collected?	Yes	Gear type	Probabl	e gillnet

Reproductive prior to/after						
Enta	Low					
Entang	figuration risk	High				
Mound coverity	Mouth	Head/ Rostrum	Flippers Body		Flukes	
Wound severity	Low	Low	Low	None	Low	
Duration of time ca	rrying gear	Minimum 1 day, maximum 16 days.				
Dise	Yes					
	Alive - Last sighted in 2015					
Number of prior entanglement in	nteractions	2				

Entangleme	ent configuration	Two lines exiting right mouth and loosely draped over back, trailing around 500 feet.
An	choring point(s)	Mouth
Gear configura	ation confidence	High
Rema	aining questions	None
Comments		Entanglement was reported by a fishing vessel. Gear was likely gillnet gear picked up same day as gillnetting was occurring to NE and whale was traveling fast to WSW. No lobster fishing in Bay of Fundy that time of year.
	Polymer type	Polysteel
G	ear component	Gillnet
Rope diameter (inches)		7/16 (0.413)
Breaking	Tested	3 363
strength (lbs)	New	4 100



12 Sep 1997 NEA



12 Sep 1997 NEA



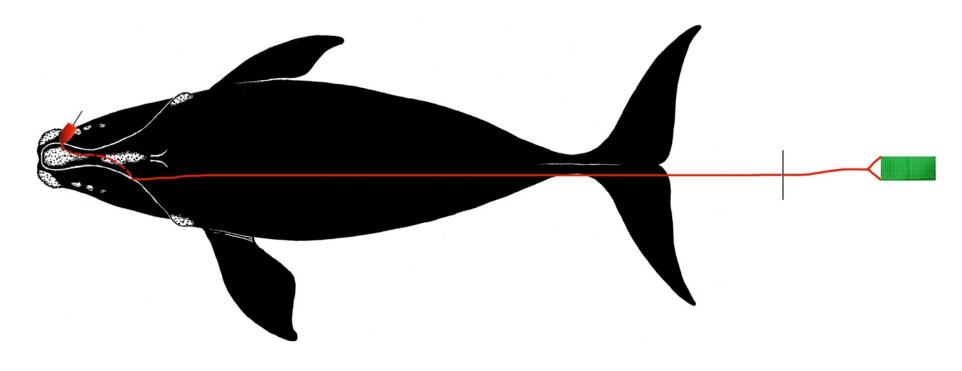
12 Sep 1997 NEA



12 Sep 1997 NEA

	Species	Right Wh	ale	Whale ID	Eg #2212	
	ate first observe date seen prior w					
Sex	Male	Birth year	1992	Age	at entanglement	6

Coop atualis ID	PCCS	NMFS		GEAR ID
Case study ID		E36-98		J091298 a-b
Gear sample collected?	Yes	Gear type Lobster		



Reproductive prior to/after entanglement detection?						
Entanglement injury severity						
Entanglement configuration risk F						
uth	Head/ Rostrum	Flippers	Body	Flukes		
w	Low	Unknown	Unknown	Unknown		
g gear	Minimum 1 d	ay, maximun	n 24 days			
ngled?	Yes - partially 12 Sep 1998					
Status			Presumed dead - Last sighted in 1998			
actions	4					
	ement int confine the confine	ement injury severity nt configuration risk uth Head/ Rostrum w Low g gear Minimum 1 d ngled? Yes - partially	ement injury severity Int configuration risk Int Head/ Rostrum Flippers W Low Unknown Ing gear Minimum 1 day, maximum Ingled? Yes - partially 12 Sep 199 Status Presumed dead - Last sig	ement injury severity Minor Int configuration risk High Inth Head/Rostrum Flippers Body Inth Low Unknown Unknown Ing gear Minimum 1 day, maximum 24 days Ingled? Yes - partially 12 Sep 1998 Ingled Presumed dead - Last sighted in 199		

Entanglement configuration	Whale free swimming; dragging single pot/surface system from mouth; buoy jammed in mouthline; length of line caught in mouth and down throat from previous entanglement.
Anchoring point(s)	Mouth
Gear configuration confidence	High
Remaining questions	None
Comments	Whale dragged its gear into a number of other gear sets as it blundered through Provincetown Harbor; line down throat could not be seen on this date, but was seen at its third entanglement on 14 Sept 1997 (not illustrated).

	Polymer type	PP	PP/PET
G	ear component	Vertical	Vertical
Rope diameter (inches)		5/16 (0.339)	3/8 (0.374)
Breaking	Tested	1 615	1 692
strength (lbs)	New	1 700	2 600



12 Sep 1998 PCCS



12 Sep 1998 PCCS



12 Sep 1998 PCCS

FORENSIC ANALYSIS OF ROPES WHALE ENTANGLEMENT PROJECT

SPECIMEN ID NO. NMFS NO.

J091298 E36.98

Gear Description:

A 3 foot trap, end line and surface buoy.



Rope description: J091298-a $\,^{5}/_{16}$ inch 3-strand black PP floating line with green marker yarn. Moderate wear.

Tested (T) or adjusted (A)	Typical new strength	Rope condition
strength		
1,615 lbs (T)	1,700 lbs	Good



J091298-b 3 / $_{8}$ inch 3-strand PP/PET 'Easy Haul' sinking line. Black PP rope yarns in parallel with white PET yarns. Sinking line with a specific gravity 0f 1.100.

Tested (T) or adjusted (A)	Typical new strength	Rope condition
strength		
1,692 lbs (T)	2,600 lbs	Very good



Species Right Whale			ale	Wh	ale ID	Eg #2212	
Date first observed entangled							
(date seen prior without gear)			(12 Sep 18	196)			
Sex Ma	ale	Birth year	1992		Age	at entanglement	6

Casa study ID	PCCS	NMFS		GEAR ID
Case study ID		E38-9	8	J091498
Gear sample collected?	Yes	Gear type	Lobster	

Reproductive prior to/after entanglement detection?						
Entanglement injury sever			Minor			
Enta	inglement conf	iguration risk	High			
Wound coverity	Mouth	Head/ Rostrum	Flippers	Body	Flukes	
Wound severity	Low	Low	Unknown	Unknown	Unknown	
Duration of time carrying gear		Minimum 1 d	ay, maximun	n 2 days		
Disentangled?		? Yes - partially 14 Sep 1998				
Status		Presumed dead - Last sighted in 1998				
Number of prior entangleme	ent interactions	4				

Entanglement configuration	Whale free swimming; single line through mouth and over top of head. It had just been disentangled from lobster gear on 12 Sept 1998.
Anchoring point(s)	Mouth
Gear configuration confidence	High
Remaining questions	None
Comments	Line down throat observed and determined to be from first entanglement in August 1997(first detected on 24 July 1998)

	Polymer type	PP	PP	PP/PET	PP/PET	PP/PET
Ge	ar component	Vertical				
Rope dia	meter (inches)	9/16 (0.559)	3/8 (0.354)	3/8 (0.394)	7/16 (0.457)	5/16 (0.335)
Breaking	Tested	3 532	1 420	1 784	2 100	1 162
strength (lbs)	New	4 590	2 430	2 600	3 600	1 900



PCCS 14 Sep 1998



PCCS 14 Sep 1998

FORENSIC ANALYSIS OF ROPES WHALE ENTANGLEMENT PROJECT

SPECIMEN ID NO. NMFS NO.

J 091498 E38-98

Gear Description:

The gear consisted of two large sets with four total pieces. Item (a) was long while the others were relatively short. Item (c) was joined to (a) by a T splice (in the left side of the third figure. The lines were part of trap gear.







Items (a) yellow, (b) black and (c). speckled grey. Note splices. Knots may have been made post recovery.

Rope Descriptions:

J091498-a

9/₁₆ Yellow PP monofilament 3-strand. Discolored and random broken

This was a very long length at filaments may indicate UV degradation. This was a very long length and apparently made up most of the set.



Rope (a)

Tested (T) or adjusted (A) strength	Typical new strength	Rope condition
3,532 (T)	4,590 lbs	Good

J091498-b $^3/_8$ Black PP monofilament 3-strand, Appeared in good condition. Only a short segment present. This may have been used to make secondary attachments.



Rope (b)

Tested (T) or adjusted (A)	Typical new strength	Rope condition
strength		
1,420 (T)	2,430 lbs	Good

J091498-c

³/₈ 3-Strand construction. In each strand there are 3 rope yarns of black PP monofilament are twisted in parallel with 3 PET multifilament rope yarns. This line has a Tee splice into specimen (a), the yellow PP. Refer to the photo. This rope design is seen frequently and known as "Easy Haul"

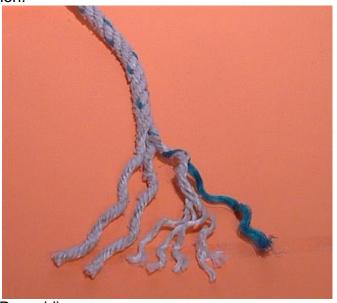


Rope (c). Known in trade as "Easy Haul)

Tested (T) or adjusted (A) strength	Typical new strength	Rope condition
1,784 (T)	2,600 lbs	Good

J091498-d

⁹/₁₆ 3-Strand construction. Each of 4 rope yarns has PET wrapped around PP, the fifth strand is all green monofilament. The rope has moderate surface abrasion.

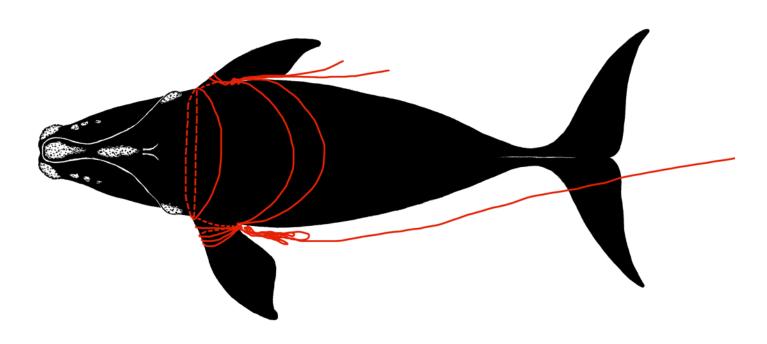


Rope (d)

Tested (T) or adjusted (A)	Typical new strength	Rope condition
strength		
2,160 (A)	3,600 lbs	Fair

Species Right Whale		Whal	e ID	Eg #2030		
Date first observe (date seen prior v						
Sex Female	Birth year	Unknown		Age a	at entanglement	9+

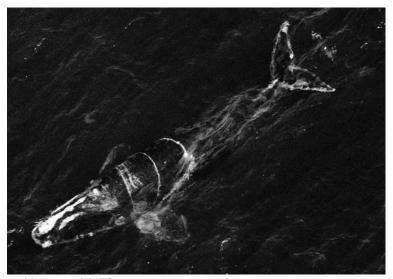
Coop study ID	PCCS	NMFS	3	GEAR ID
Case study ID		E4-99	9	J051099 a-b
Gear sample collected?	Yes	Gear type	Sink gill	net



Reproductive prior to/after entanglement detection?			No/No			
Entanglement injury severity			Severe			
Ent	anglement con	figuration risk	High			
Wound coverity	Mouth	Head/ Rostrum	Flippers	Body	Flukes	
Wound severity	None	None	High	High	Medium	
Duration of time carrying gear		Minimum 163 days, maximum 768 days				
Disentangled?		No No				
Status		Dead - 20 Oct 1999				
Number of prior entangleme	nt interactions	4				

Entanglement configuration	Whale free-swimming; chest and back wraps stretched between flippers, each with multiple wraps; very little
	trailing line.
Anchoring point(s)	Flippers, body
Gear configuration confidence	High
Remaining questions	None
Comments	Multiple disentanglement attempts were unsuccessful;
	tail harness was tried but failed.

Polymer type		PP	PP/PET
G	ear component	Gillnet anchor system	Gillnet anchor system
Rope diameter (inches)		1/2 (0.469)	9/16 (0.571)
Breaking	Tested	2 757	5 440
strength (lbs)	New	3 780	6 800



10 May 1994 NMFS



4 Sep 1999 NEA



4 Sep 1999 NEA



21 Oct 1999 NEA



21 Oct 1999 NEA

FORENSIC ANALYSIS OF ROPES WHALE ENTANGLEMENT PROJECT

SPECIMEN ID NO. NMFS NO.

J051099 E4-99

Gear Description:

Note on gear indicated use with gill net operation. As seen in photo, the separate segment on the left has been unlaid and one end indicates a tensile break.

The gear consisted of a large length of the 3-strand polypropylene rope described below and a segment of $^{5}/_{8}$ inch combo rope too short to analyze.



Gear set possibly associated with gill netting.

Rope description:

J051099-b: Short segment of 5/8 inch combo rope

Tested (T) or adjusted (A)	Typical new strength	Rope condition
strength		
5,440 lbs (A)	6,800 lbs	Good

Rope description:

J051099-a: 1/2 inch 3-Strand, yellow PP monofilament with one blue rope yarn in one strand.

There are 7 rope yarns per strand including marker. Little wear, some broken filaments along length. Some of the line was in better condition as seen in the lower photo.

Tested (T) or adjusted (A) strength	Typical new strength	Rope condition
2,757 lbs (T)	3,780 lbs	Fair





Date first obser	ved entangled	19 May 1999		
(date seen prior without gear)		(03 Mar 1999)		
Sex Female	Birth year	Unknown	Age at entanglement	19+

Species Right Whale

Whale ID Eg #1158

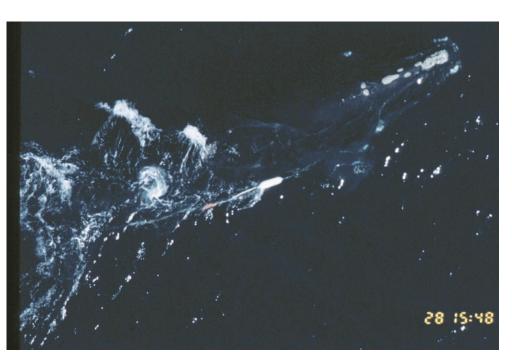
Coop atual LD	PCCS	NMFS		GEAR ID
Case study ID		E6-99)	
Gear sample collected?	Yes	Gear type		

Reproductive prior	Yes				
Reproductive af	No				
	Entangle	ment severity	Moderate		
Wound coverity	Mouth	Head/ Rostrum	Flippers	Body	Flukes
Wound severity	None	None	Medium	None	Low
Duration of time	carrying gear	Minimum 13	days, maxim	num 206 da	ays
	Yes				
	Alive - Last sighted in 2014				
Number of prior entangleme	3				
•					

Entanglement configuration	Rope wrapped on right flipper with high flyer attached just aft of flipper. Less than one body length of rope trailing.
Anchoring point(s)	Flipper
Gear configuration confidence	High
Remaining questions	
Comments	Only highflyer retrieved. No rope available for analysis.



23 May 1999 PCCS



28 May 1999 NMFS



05 Aug 1999 NEA



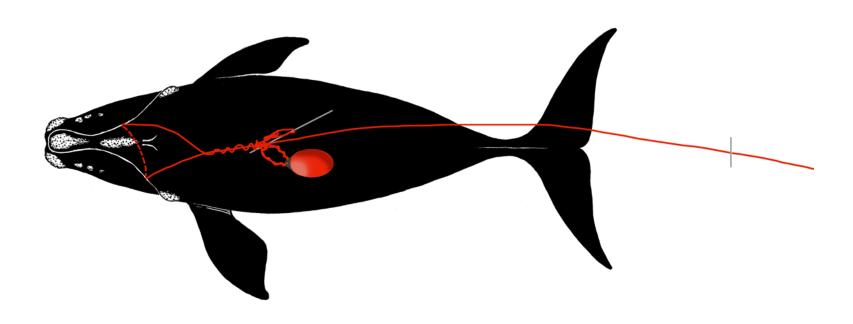
11 Aug 1999 NEA

١								
		ate first obser						
	(0	date seen prior	without gear)	(03 Sep 19	998)			
	Sex	Female	Birth year	1997		Age	at entanglement	2

Species Right Whale

Whale ID Eg #2753

Casa study ID	PCCS	NMFS	GEAR ID
Case study ID		E7-99	J060599
Gear sample collected?	Yes	Gear type	



Reproductive prior to/af	No/Yes				
	Minor				
Ent	figuration risk	High			
Wound coverity	Mouth	Head/ Rostrum	Flippers	Body	Flukes
Wound severity	Low	None	Unknown	Low	Low
Duration of time	Minimum 1 d	ay, maximum	289 days		
	Yes - 5 Jun 1	999			
	Alive - Last sighted in 2016				
Number of prior entangleme	1				

Entanglement configuration	Whale free-swimming; bridle of line caught in mouth leading to tangle of line and buoys on back; line trailing ~300 feet.
Anchoring point(s)	Mouth
Gear configuration confidence	High
Remaining questions	None
Comments	Whale was discovered and disentangled during training session in Bay of Fundy.

Polymer Type		PP/PET
Gear Component		Vertical line
Rope Diameter (inches)		5/16 (0.323)
Breaking	Tested	1 854
Strength (lbs)	New	1 900





05 Jun 1999 ECE





05 Jun 1999 ECE



05 Jun 1999 ECE



05 Jun 1999 ECE

FORENSIC ANALYSIS OF ROPES WHALE ENTANGLEMENT PROJECT

SPECIMEN ID NO. NMFS NO.

J060599 E7-99

Gear Description:

Coil of 'Easy Haul' PP/PET sinking line as seen below



Rope description: J060599 $\,^5/_{16}$ inch 3-strand PP/PET sinking line. Typical black PP and white PET in parallel. Specific gravity 1.152. Good condition.

Tested (T) or adjusted (A) strength	Typical new strength	Rope condition
1,854 lbs (T)	1.900 lbs	Very good



	Date first obser	ved entangled	21 Jul 1999	
(date seen prior without gear)		(19 Jun 1999)		
	Sex Female	Birth year	1997	Age at entanglement 2

Species Right Whale

Whale ID Eg #2710

Case study ID	PCCS	NMFS	GEAR ID
		E16-99	J072199
Gear sample collected?	Yes	Gear type Lobster	

Reproductive prior to/after entanglement detection?			No/Yes		
Entanglement severity			Moderate		
Entanglement configuration risk			High		
Wound severity	Mouth	Head/ Rostrum	Flippers	Body	Flukes
	Low	Low	Medium	Low	Medium
Duration of time	Minimum 55 days, maximum 389 days				
Disentangled?		Yes			
Status		Alive - last sighted in 2014			
Number of prior entanglement interactions		1			

Entanglement configuration	Rope through mouth and crisscrossing over blowholes and body. May wrap both flippers. Trailing ~ 20 feet behind flukes.
Anchoring point(s)	Mouth, flipper(s)
Gear configuration confidence	Low
Remaining questions	Extent of flipper involvement.
Comments	Gear pulled off by telemetry buoy attached to trailing
	gear.

Polymer type		PP
Gear component		
Rope di	ameter (inches)	1/2 (0.472)
Breaking	Tested	3 339
strength (lbs)	New	3 780



02 Aug 1999 NEA



02 Aug 1999 NEA



03 Aug 1999 NEA

FORENSIC ANALYSIS OF ROPES WHALE ENTANGLEMENT PROJECT

SPECIMEN ID NO. NMFS NO.

J072199 E16-99

Gear Description:

Considerable tangling of the gear set but untangled rope was in very good condition,

Noted by NMFS as Canadian pot gear.



Rope description: $^{1}/_{2}$ dia 3-stand red polypropylene monofilament with 13 rope yarns per strand.

Tested (T) or adjusted (A) strength	Typical new strength	Rope condition
3,339 lbs (T)	3,780 lbs	Very good

