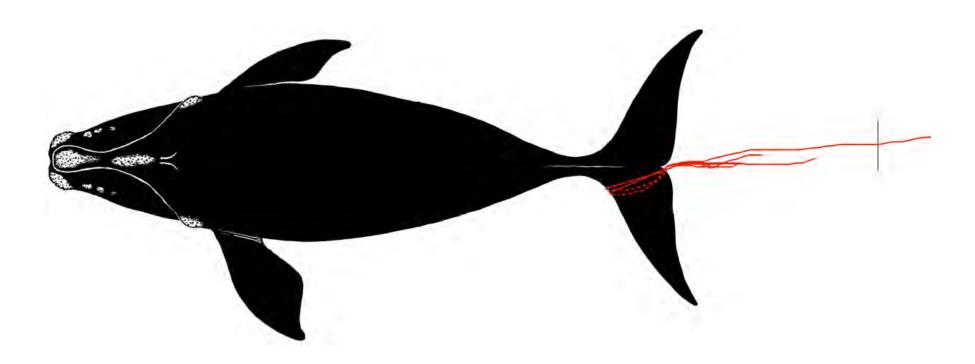
Date first obser	ved entangled	13 May 2010	
(date seen prior without gear)		(24 Jan 2010)	
Sex Male	Birth year	Unknown	Age at entanglement 17+

Whale ID 2470

Species Right Whale

Casa study ID	CCS	NMFS	GEAR ID
Case study ID-	WR-2010-03	E04-10	J051310
Gear sample collected?	Yes	Gear type	



Reproductive prior to/af					
Entanglement injury severity			Severe		
Entanglement configuration risk			High		
Wound coverity	Mouth	Head/ Rostrum	Flippers	Body	Flukes
Wound severity	None	None	None	Unknown	High
Duration of time	carrying gear	Minimum 1 d	ay, maximum	106 days	
	Disentangled?	Yes - 13 May	2010		
	Alive - Last sighted in 2021				
Number of prior entangleme	4				

Entanglement configuration	One continuous piece of line wrapping the left fluke blade twice and trailing aft of the flukes by ~130feet
Anchoring point(s)	Flukes
Gear configuration confidence	High
Remaining questions	
Comments	Line was configured in such a way that the drag of the trailing line kept the fluke wraps tight even as the leading and trailing edges of the flukes eroded.

Polymer Type		Polysteel
Gear Component		
Rope Diameter (inches)		5/8 (0.652)
Breaking Strength	Tested	6 480
(lbs)	New	9 000



13 May 2010 NEFSC



13 May 2010 PCCS



13 May 2010 NMFS



13 May 2010 NEFSC
This case study was developed under NOAA Award # NA09NMF4520413 to the Consortium for Wildlife Bycatch Reduction, administered at the New England Aquarium, Boston, MA, USA (available at www.bycatch.org).
See: Knowlton, A.R., J. Robbins, S. Landry, H.A. McKenna, S.D. Kraus, T. B. Werner. 2015. Effects of fishing rope strength on the severity of large whale entanglements. Conservation Biology DOI: 10.1111/cobi.12590

DATA SHEET

FORENSIC ANALYSIS OF ROPES WHALE ENTANGLEMENT PROJECT

SPECIMEN ID NO. NMFS NO.

J051310rw E04-10

Gear Description:

The gear is as seen in the photos below. Algae growth on much of it. Tangling and some severe damage. Some cuts and knots noted by recovery team.





Rope description:

J051310-1: Line was ⁵/₈ inch white polysteel but measured slightly undersized. There were 18 yarns per strand. The line was soft. An orange tracer is in one strand. Condition was fair overall but some areas showed severe damage.

Tested (T) or adjusted (A) strength	Typical new strength	Rope condition
6,480 lbs (T)	9,000 lbs	Fair

Species	Right Whale	Whale ID	Eg # 1124
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Date first observed entangled		27 Jun 20	10		
(date seen prior without gear)		(5 Jan 20:	10)		
Sex	Male	Birth year		Age at entanglement	31+

Case study ID	CCS	NMFS	GEAR ID
	WR-2010-07	E08-10	
Gear sample collected?	No	Gear type	

Reproduc					
Entanglement injury			ury severity	Severe	
	Entangle	ment configi	uration risk	High	
Mound coverity	Mouth	Mouth Head/ Flippers rostrum	Body	Flukes	
Wound severity	Unk	High	High	Unk	Unk
Duration of t	time carrying gear	Minimum 1 days, maximum 172 days			
	Disentangled?		No		
	Dead				
Number of pri	or entanglements	2			

Entanglement configuration	Multipe wraps embedded around rostrum. Flippers also had deep, chronic wounds
Anchoring points	Mouthline, flippers
Gear configuration confidence	High
Remaining questions	
Comments	Covered with orange cyamids

Polyr	ner type	
Gear component		
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



30 June 2010, US Coast Guard, rostrum and left flipper



27 June 2010, US Coast Guard, left body



27 June 2010, US Coast Guard, body and left flipper



1 July 2010, WHOI, deep cut from rope in rostrum

Species Right Whale Whale ID Eg # 1503	Species	Right Whale	Whale ID	Eg # 1503
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Date first observed entangled		10 Sep 20)10		
(date seen prior without gear)		(12 Apr 2	010)		
Sex	Female	Birth year	1985	Age at entanglement	25

Case study ID	CCS	NMFS	GEAR ID
	WR-2010-20	E20-10	
Gear sample collected?	No	Gear type	

Reproduct	entanglement detection Yes/No				
	Entar			Moderate	
	Entangle	ment configuration risk		High	
Mouth		Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unk	Medium	Unk	None	Medium
Duration of t	ime carrying gear	Minimum 1 days, maximum 150 days			ys
Disentangled?		? No			
Status		Presumed dead. Last seen 2010			
Number of pri	or entanglements	4			

Entanglement configuration	Three entwined ropes exit left mouth crossing rostrum towards right flipper
Anchoring points	Mouthline, flipper?
Gear configuration confidence	Low
Remaining questions	Involvement of one or both flippers is unknown
Comments	

Polymer type		
Gear component		
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



10 Sep 2010, Blue Ocean Society

Species	Right Whale	Whale ID	Eg # 3120
			-0

Date first observed entangled		20 Oct 20	10		
(date s	date seen prior without gear)		(19 Oct 2	010)	
Sex	Male	Birth year	2001	Age at entanglement	9

Case study ID	CCS	NMFS		GEAR ID
	WR-2010-21	E22-10		
Gear sample collected?	No	Gear type	U.S. gill	lnet

Reproduc	t detection				
	Entan	ıglement inju	lement injury severity Severe		
	Entangle	ment configi	uration risk	High	
Wound severity	Head/ rostrum	Flippers	Body	Flukes	
woulld severity	Medium	None	High	None	Medium
Duration of t	time carrying gear	Minimum 89 days, maximum 153 days			ays
Disentangled?		No			
Status		Alive - last seen in 2022			
Number of pri	or entanglements	2			

Entanglement configuration	Line around body and probably one or both flippers
Anchoring points	Flippers?, mouthline?
Gear configuration confidence	Low
Remaining questions	Uncertain how mouth and flippers were involved
Comments	Gear shed

Polymer type		
Gear con	nponent	Float line
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



20 Oct 2010, Blue Ocean Society



20 Oct 2010, Blue Ocean Society



20 Oct 2010, Blue Ocean Society

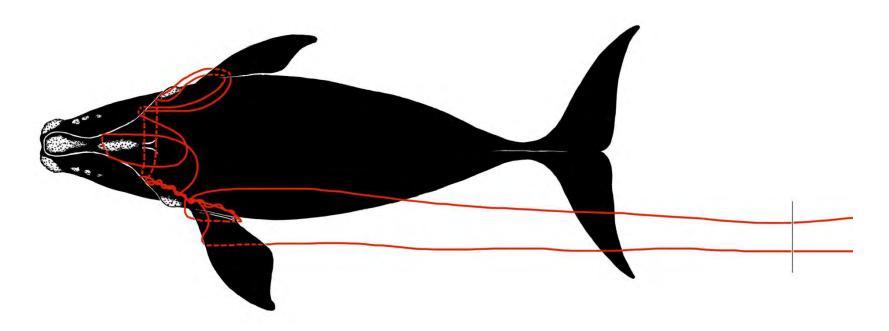


18 Sep 2011, NEAq, deep injury left flipper

Species	Right Whale	Whale ID	Fg # 3911
JPCCICS	Mignit viliale	Wilaic ID	LE T JJII

Date first observed entangled		25 Dec 2010			
(date seen prior without gear)		(23 Feb 2	010)		
Sex	Female	Birth year	2009	Age at entanglement	2

Case study ID	CCS NMFS GEA		GEAR ID	
	WR-2010-23	E25-10 J122510 rw		J122510 rw
Gear sample collected?	yes	Gear type	Trap/pot	



Reproduc	entanglement detection No/No					
	nglement injury severity Severe					
Entangle		ment configuration risk		High		
Mouth Wound severity		Head/ rostrum	Flippers	Body	Flukes	
High		High	High Medium High			
Duration of time carrying gear		Minimum 38 days, maximum 342 days				
Disentangled?		Yes, partial				
Status		Dead				
Number of pri	or entanglements	1				

Entanglement configuration	Ropes through mouth, around both flippers, and trailing ~200 ft
Anchoring points	Moutline, flippers
Gear configuration confidence	High
Remaining questions	
Comments	Poor conditon, succumbed to sharks

Polyn	ner type	Copolymer
Gear component		Floating groundline
Rope diameter	(inches)	7/16 (0.4375)
Breaking strength (lbs)	Tested	
	New	4 100



25 Dec 2011, FL FWC



25 Dec 2011, FL FWC



25 Dec 2011, FL FWC

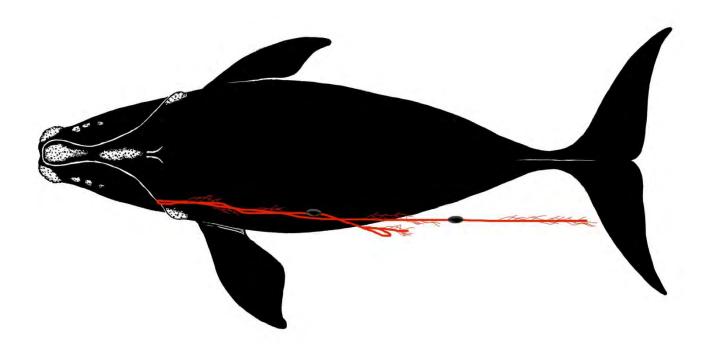


1 Feb 2011, FL FWC

	Species	Right Whale	Whale ID	Eg # 3010
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Date first observed entangled		19 Jan 20	11			
	(date s	een prior	without gear)	(31 Dec 2	010)	
	Sex	Female	Birth year		Age at entanglement	12+

Case study ID CCS		NMFS		GEAR ID
	WR-2011-02	E02-11		
Gear sample collected?	No	Gear type	US southeast gillnet	



Reproduc	entanglement detection Yes/Yes				
	nglement injury severity Minor				
	ement configuration risk		Low		
Mouth Wound severity		Head/ rostrum	Flippers	Body	Flukes
Low		None	Unk	None	Low
Duration of	Minimum 11 days, maximum 110 days				
	No				
	Alive - last seen in 2022				
Number of pri	or entanglements	1			

Entanglement configuration	Single rope exiting left side of mouth
Anchoring points	Mouthline
Gear configuration confidence	High
Remaining questions	
Comments	Gear shed

Polyn	ner type	
Gear component		
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



19 Jan 2011, Florida FWC

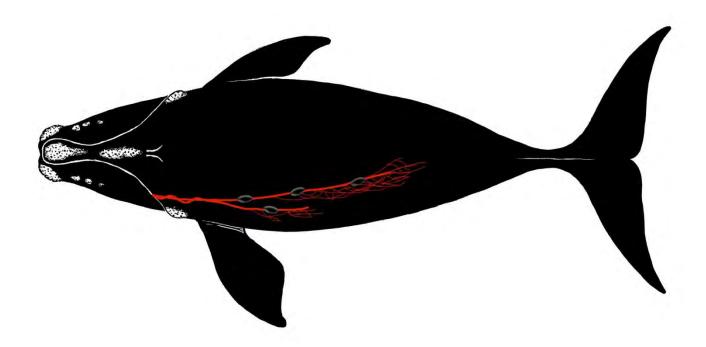


19 Jan 2011, Florida FWC

Species	Right Whale	Whale ID	Eg # 3712
Opcoics	Inglic Wilaic	TT II GIC ID	

Date first observed entangled		30 Jan 2011				
(date seen prior without gear)		(13 Nov 2010)				
Sex	Male	Birth year	2007	Age at entanglement	4	

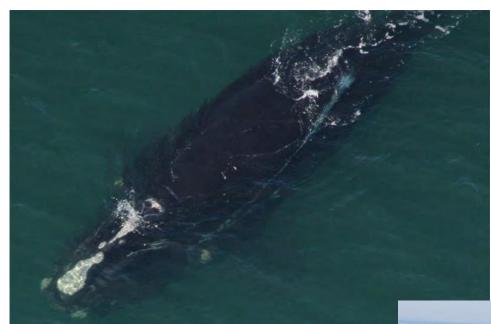
Case study ID	CCS	NMFS		GEAR ID
	WR-2011-03	E03-11		
Gear sample collected?	No	Gear type	US gillne	t



Reproduc	t detection				
	Entar	glement injury severity		Moderate	
	Entangle	ment config	uration risk	Low	
Mound soverity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	None	None	None	None	Medium
Duration of t	ime carrying gear	Minimum 10 days, maximum 163 days			ays
Disentangled?		No			
Status		Alive - last seen in 2022			
Number of pri	or entanglements	2			

Entanglement configuration	Single rope and netting exiting left mouth and halfway down body
Anchoring points	Mouthline
Gear configuration confidence	High
Remaining questions	
Comments	Gear shed

Polymer type		
Gear component		Floatline
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



30 Jan 2011, FWRI

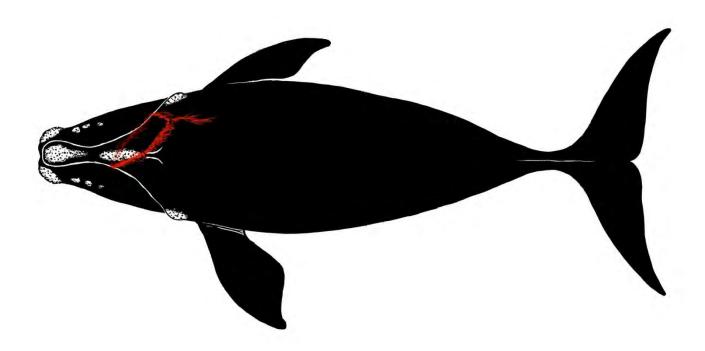


13 Aug 2011, New England Aquarium

Species	Right Whale	Whale ID	Eg # 3760

Date first observed entangled		13 Feb 2011		
(date seen prior without gear)		(1 May 20	010)	
Sex Female Birth year		2007	Age at entanglement	4

Case study ID	CCS	NMFS		GEAR ID
	WR-2011-05	E05-11		
Gear sample collected?	No	Gear type	Gillnet	



Reproduc	No/No				
	Entar	ıglement inju	ury severity	Moderate	
	Entangle			Low	
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
vvound severity	Low	None	Unk	None	Medium
Duration of	time carrying gear	Minimum 1 days, maximum 357 days			ys
Disentangled?		No			
Status		Alive - last seen in 2022			
Number of pri	or entanglements	2			

Entanglement configuration	Nettting only extending out of left and right sides of mouth and partway down the body
Anchoring points	Mouthline
Gear configuration confidence	High
Remaining questions	
Comments	Gear shed

Polymer type		
Gear component		Monofilament netting
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



13 Feb 2011, GA DNR



13 Feb 2011, GA DNR



13 Feb 2011, GA DNR

Species Right Whale	Whale ID	Eg # 3993
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Date first observed entangled		13 Feb 2011			
(date seen prior without gear)		(20 Apr 2	010)		
Sex	Male	Birth year	2009	Age at entanglement	2

Case study ID	CCS	NMFS	GEAR ID
	WR-2011-06	E06-11	J031611 rw
Gear sample collected?	? Yes Gear type		

Reproductive prior to/after entanglement detection					
	Entanglement injur			Severe	
	Entangle	ment configu	uration risk	High	
Mound soverity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	None	None	High	None	Low
Duration of t	ime carrying gear	Minimum 1 day, maximum 298+ days			ys
Disentangled?		No			
Status		Dead, 16 Mar 2011			
Number of pri	Number of prior entanglements				

Entanglement configuration	Rope wrapped around right flipper and trailing 10 ft behind flukes
Anchoring points	Flipper
Gear configuration confidence	Low
Remaining questions	Unknown if mouth involved
Comments	Poor condition, later found dead on beach

Polymer type		Copolymer
Gear component		
Rope diameter	(inches)	1/2 (0.50)
Breaking strength (lbs)	Tested	
	New	5 000



13 Feb 2011, Sea 2 Shore Alliance



13 Feb 2011, Sea 2 Shore Alliance



16 Mar 2011, NOAA, right flipper

Date first observed entangled		22 Apr 2011			
(date seen prior without gear)		(27 Aug 2	010)		
Sex	Male	Birth year	2003	Age at entanglement	8

Case study ID	CCS	CCS NMFS (
	WR-2011-33	E12-11	
Gear sample collected?	No	Gear type	

Reproductive prior to/after entanglement detection					
	Entangl			Minor	
	Entangle	ment configi	uration risk	High	
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
vvound seventy	Unk	Low	Unk	Low	Low
Duration of t	ime carrying gear	Minimum 201 days, maximum 438 days			days
Disentangled?		No			
Status		Presumed	dead. Last se	en in 2011	
Number of pri	or entanglements	2			

Entanglement configuration	Single rope across nares and likely leading into mouth. No trailing gear
Anchoring points	Mouthline
Gear configuration confidence	High
Remaining questions	
Comments	Rope is taught across blowholes but not embedded

	New	
Breaking strength (lbs)	Tested	
Rope diameter	(inches)	
Gear component		
Polymer type		

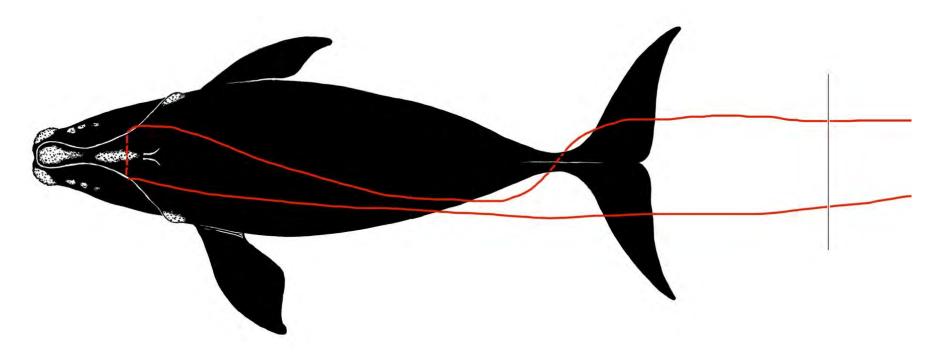


26 Sep 2011, New England Aquarium

Species Right Whale Wha	ale ID Eg # 4040
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Date first observed entangled		22 Apr 20)11		
(date	seen prior wi	thout gear)	(21 Apr 2	010)	
Sex	Female	Birth year		Age at entanglement	2+

Case study ID	CCS	NMFS		GEAR ID
	WR-2011-11	E11-11		J042211 rw-1
Gear sample collected?	yes	Gear type	NE US tra	ap/pot, nearshore



Reproduct	ive prior to/after e	t detection	No/ Yes		
	Entan	glement inju	ıry severity	Moderate	
	Entangle	ment configi	uration risk	High	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	None	Low	Unk	Low	Medium
Duration of t	ime carrying gear	Minimum 1 day, maximum 364 days			S
Disentangled?		Yes - 22 Apr 2011			
Status		Alive - last seen in 2022			
Number of pri	or entanglements	0			

Entanglement configuration	Single rope exiting both sides of mouth and extending ~50 feet behind flukes
Anchoring points	Mouthline
Gear configuration confidence	High
Remaining questions	
Comments	

Polyn	ner type	Polypro; polydac (likely copolymer)
Gear con	nponent	Endline
Rope diameter	(inches)	3/8
Breaking strength (lbs)	Tested	
	New	3 100; 3 400



22 Apr 2011, Center for Coastal Studies



22 Apr 2011, Center for Coastal Studies



22 Apr 2011, Center for Coastal Studies

Species Right Whale	Whale ID	Eg # 3123
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	Date first observed entangled		29 Apr 20)11		
١	(date seen prior without gear)		(14 Apr 2011)			
	Sex	Female	Birth year	2001	Age at entanglement	10

Case study ID	CCS	NMFS	GEAR ID
	WR-2011-13	E13-11	
Gear sample collected?	No	Gear type	

Reproduc	Yes/No				
	Entanglement injury severity		Minor		
	Entangle	ment configi	uration risk	Low	
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
vvound severity	Low	None	None	None	None
Duration of t	time carrying gear	Minimum 142 days, maximum 339 days			days
Disentangled?		No			
Status		Presumed dead -suffered a severe entglmnt in 2013		tglmnt in 2013	
Number of pri	or entanglements	3			

Entanglement configuration	Short length of line exiting right mouth gape and extending 1/2 of body
Anchoring points	Mouthline, flipper?
Gear configuration confidence	Low
Remaining questions	Uncertain if right flipper was involved
Comments	Gear shed

Polymer type		
Gear con	nponent	
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



18 Sep 2011, New England Aquarium

Species	Right Whale	Whale ID	Eg # 4090
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Date first observed entangled			18 Sep 20)11	
(date seen prior without gear)		(29 Apr 2	011)		
Sex Unknown Birth year		2010	Age at entanglement	1	

Case study ID	CCS	NMFS		GEAR ID
	WR-2011-32	E31-11		J091811 rw
Gear sample collected?	No	Gear type	US NE gil	Inet

Reproduct					
	Entan	glement inju	ıry severity	Low	
	Entangle	ment configi	uration risk	High	
Maria di assessita	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	None	Low	Unk	Unk	Low
Duration of t	ime carrying gear	Minimum 1 days, maximum 141 days			ys
Disentangled?		No			
Status		Presumed dead - last seen in 2011 entangled			entangled
Number of pri	or entanglements	1			

Entanglement configuration	Gillnet line and netting through mouth and around tail
Anchoring points	Mouthline, tail
Gear configuration confidence	Low
Remaining questions	Unknown if flippers involved
Comments	Whale thrashing, gear shifting

Polymer type		
Gear component		Floatline
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



Species	Pight Whale	Whale ID	Ea # 2111
species	Right Whale	whale ib	c8 # 2111

Date first observed entangled		26 Sep 20)11		
(date seen prior without gear)		(31 May 2	2011)		
Sex	Male	Birth year	2001	Age at entanglement	10

Case study ID	CCS	NMFS	GEAR ID
	WR-2011-34	E32-11	
Gear sample collected?	No	Gear type	

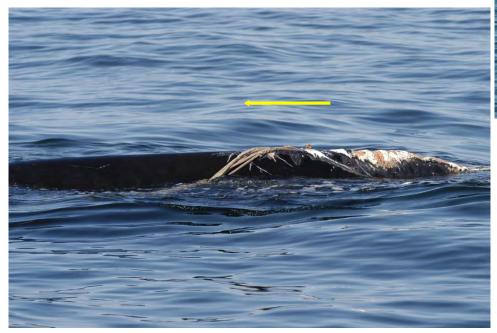
Reproduct	t detection				
	Entan	glement inju	iry severity	Severe	
	Entangle	ment configi	uration risk	High	
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
woulld severity	Unk	Low	High	Medium	High
Duration of t	ime carrying gear	Minimum 1 days, maximum 276 days			ys
Disentangled?		Yes, partial			
Status		Presumed dead - last seen in 2012			
Number of pri	or entanglements	4			

Entanglement configuration	Multiple ropes wrapped around left flipper and trailing around 20 ft behind flukes
Anchoring points	Flipper, mouthline?
Gear configuration confidence	High
Remaining questions	Uncertain if line went into left mouth
Comments	Peduncle injuries are not fully healed

Polymer type		
Gear component		
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



27 Sep 2011, Campobello Whale Rescue



27 Sep 2011, Campobello Whale Rescue

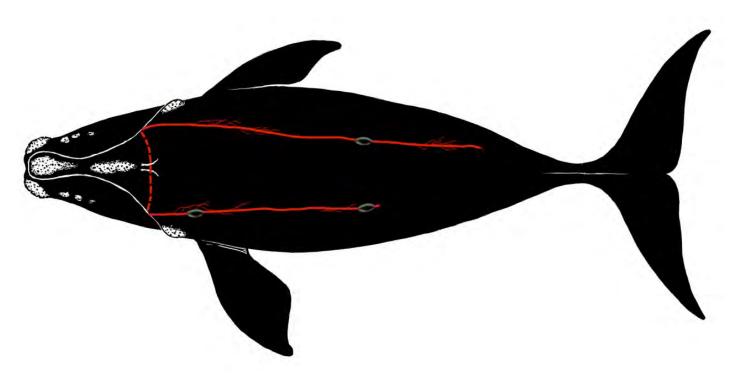


27 Sep 2011, New England Aquarium

«Comments»«Comments»Species Right Whale Whale ID Eg #	# 3821
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Date first observed entangled		7 Jan 2012			
(date seen prior without gear)		(2 Sep 2011)			
Sex Unk Birth year		2008	Age at entanglement	4	

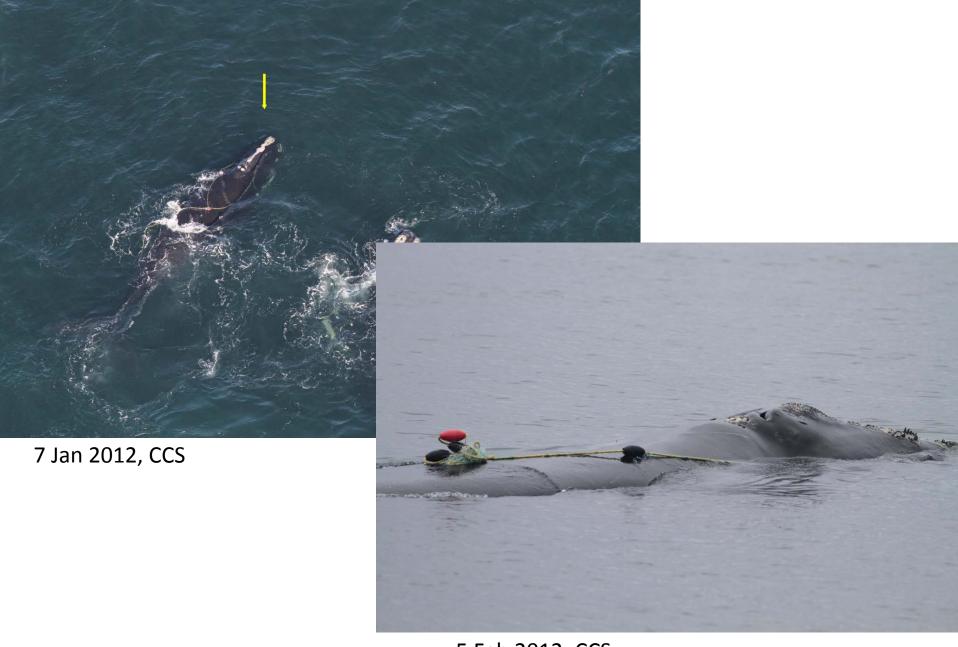
Case study ID	CCS	NMFS		GEAR ID
	WR-2012-01	E01-12		
Gear sample collected?	No	Gear type	Gillnet	



Reproduct					
	ıry severity	Minor			
	ment configi	uration risk	Low		
NA/ d	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unk	None	Unk	None	Low
Duration of t	ime carrying gear	Minimum 8	323 days, ma	ximum 949	days
Disentangled?		Yes - partia	al disentangl	ement Feb 1	5, 2012
Status		Alive – last	seen in 202	2	
Number of pri	or entanglements	2		•	

Entanglement configuration	Rope and netting through mouth
Anchoring points	Mouth
Gear configuration confidence	High
Remaining questions	
Comments	Remaining gear shed

Polymer type		
Gear component		
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	

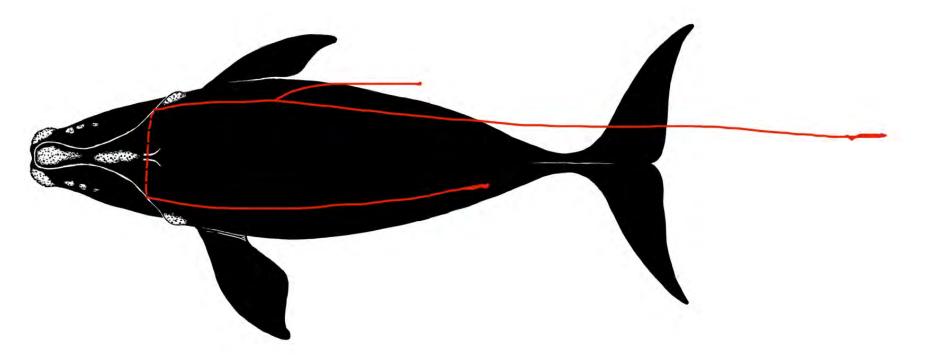


5 Feb 2012, CCS

Species Right Whale	Whale ID	Eg # 1719
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Date first observed entangled		19 Jan 20	12	
(date seen prior without gear)		(22 Apr 2	011)	
Sex Female Birth year			Age at entanglement	26+

Case study ID	PCCS	NMFS	GEAR ID
	WR-2012-02	E02-12	
Gear sample collected?	No	Gear type	



Reproduct	No/ No				
	Entan	glement inju	ıry severity	Moderate	
	Entangle	ment configi	uration risk	Low	
NA/a um al a su contitu u	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Low	No	Unk	None	Medium
Duration of t	ime carrying gear	Minimum 2 days, maximum 694 days			ys
	No				
	Alive – last	seen in 202	2		
Number of pri	or entanglements	2			

Entanglement configuration	Rope through mouth and short amount trailing behind body
Anchoring points	Mouth
Gear configuration confidence	High
Remaining questions	
Comments	Gear shed

Polymer type		
Gear component		
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



19 Jan 2012, Georgia DNR

Species	Right Whale	Whale ID	Eg # 3996

Date first observed entangled		15 Feb 2012			
(date seen prior without gear)		(6 Oct 2011)			
Sex	Male	Birth year	r 2009 Age at entanglement 3		3

Case study ID	CCS	NMFS		GEAR ID
	WR-2012-05	E05-12		
Gear sample collected? No		Gear type	Gillnet	

Reproductive prior to/after entanglement detection					
	glement injury severity		Moderate		
	ment configuration risk		High		
NA/a um al a su contitu u	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unk	Medium	Unk	Low	Low
Duration of time carrying gear		Minimum 207 days, maximum 338+ days			
Disentangled?		No			
Status		Presumed dead - last seen in 2012			
Number of prior entanglements		1			

Entanglement configuration	Rope goes through mouth on left side and across rostrum to unk anchoring point on right side, shifted forward and tightened over time
Anchoring points	Mouth
Gear configuration confidence	High
Remaining questions	Uncertain if right flipper involved
Comments	Rope embedded forward of blowholes. Config changed between
	Feb and Apr

Polymer type		
Gear component		
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



Species	Right Whale	Whale ID	Eg # Unid
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Date first observed entangled		23 Jul 20:	12		
(date seen prior without gear)		(Unknow	n)		
Sex	Female	Birth year		Age at entanglement	Unknown

Case study ID	CCS	DFO	GEAR ID
		86957	X-Canada 4
Gear sample collected?	Yes	Gear type	

Photographs inadequate to determine complete entanglement configuration - no drawing available

Reproduct	Unknown				
	nglement injury severity		Severe		
	ment configi	uration risk	High		
Mouth		Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unk	Unk	Unk	Unk	High
Duration of time carrying gear		Minimum 1 day, maximum unknown			
Disentangled?		No			
Status		Dead			
Number of pri	or entanglements	Unknown			

Entanglement configuration	30 wraps of rope around tail; likely drowned in gear
Anchoring points	Tail
Gear configuration confidence	High
Remaining questions	
Comments	Carcass very decomposed; gear collected by DFO

Polymer type		Co-polymer
Gear component		
Rope diameter (inches)		7/8 (0.843)
Breaking strength (lbs) Tested		2,600 (left in sun for 4 weeks after removal)
New		12,800

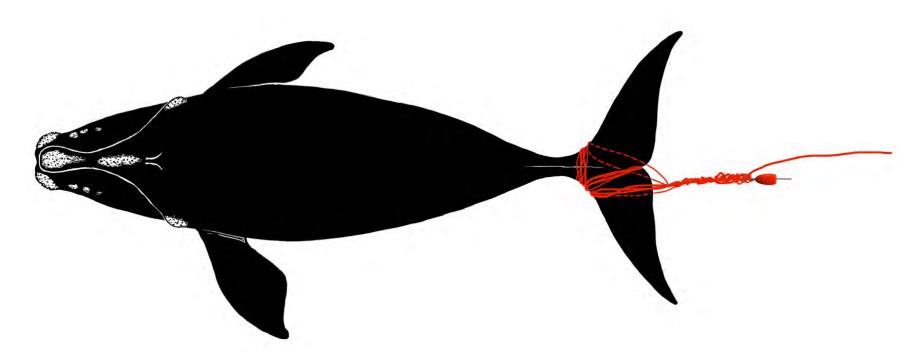


25 July 2012, UPEI

Species Right Whale Whale ID Eg # 4193	Species	Right Whale	Whale ID	Eg # 4193
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Date first observed entangled		18 Dec 2012			
(date seen prior without gear)		(28 Jan 2012)			
Sex	Male	Birth year	2011	Age at entanglement	2

Case study ID	PCCS	NMFS		GEAR ID
	WR-2012-42	E43-12		J121812 rw
Gear sample collected?	Yes	Gear type	US NE tra	p/pot, nearshore



Reproductive prior to/after entanglement detection					
	ıry severity	Severe			
Entanglement configu			uration risk	High	
NA/a um al a su carido u	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Medium	Medium	Medium	Medium	High
Duration of time carrying gear		Minimum 1 days, maximum 324 days			
Disentangled?		No			
Status		Dead			
Number of pri	or entanglements	0			

Entanglement configuration	Three endlines wrapped multiple times around tail
Anchoring points	Tail
Gear configuration confidence	High
Remaining questions	
Comments	Entanglement injuries evident at mouth and flippers

Polymer type		PET; PET/Copolymer; PP
Gear con	nponent	End lines with spindle buoys
Rope diameter	(inches)	3/8 for all
Breaking strength (lbs) Tested		
	New	2900; 3400; 2430



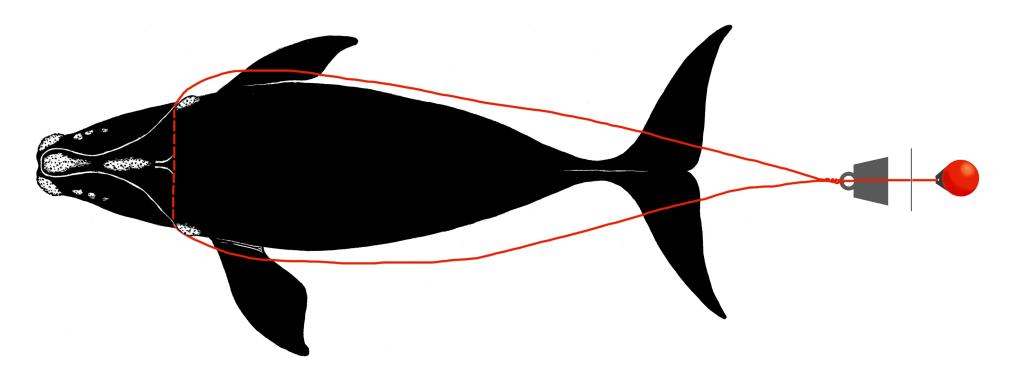
19 Dec 2012 UNCW/Florida FWC

19 Dec 2012 UNCW/Florida FWC

Species	Right Whale	Whale ID	Fg # 3123
Species	Mgm vviidic	Wilaic ID	LB 11 3123

Date first observed entangled		12 Jul 2013			
(date seen prior without gear)		(20 Mar 2012)			
Sex	Female	Birth year	2001	Age at entanglement	12

Case study ID	CCS	NMFS	GEAR ID
·	WR-2013-04	E05-13	
Gear sample collected?	No	Gear type	



Reproduc	t detection	Yes/No			
	Entan	glement inju	ıry severity	Severe	
	Entangle	ment configi	uration risk	High	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Medium	Medium	Medium	None	High
Duration of time carrying gear		Minimum 1 day, maximum 478 days			S
Disentangled?		Yes, ad hoc disentanglement			
Status		Presumed dead - Not seen since 2013			13
Number of pri	or entanglements	4			

Entanglement configuration	Single line through mouth forming bridle leading to depth with two polyballs several hundred yards behind tail
Anchoring points	Mouthline
Gear configuration confidence	High
Remaining questions	
Comments	Tail injury suggests constant abrasion

Polymer type		
Gear component		Buoy and endline (at minimum)
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



12 Jul 2013 Opportunistic sighting





17 Jul 2013 SEFSC/AMPS

Species	Right Whale	Whale ID	Eg # 1311

Date first observed entangled		11 Aug 20	013		
(date seen prior without gear)		(21 Apr 2	013)		
Sex	Male	Birth year	1983	Age at entanglement	30

Case study ID	CCS	NMFS	GEAR ID
	WR-2013-06	E07-13	
Gear sample collected?	No	Gear type	

Photographs inadequate to determine complete entanglement configuration - no drawing available

Reproduct	t detection	Yes/No			
	Entan	glement inju	ıry severity	Severe	
	Entangle	ment configuration risk		High	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Medium	Medium	Unknown	Medium	Unknown
Duration of t	ime carrying gear	Minimum 1 day, maximum 111 days			
Disentangled?		No			
	Dead				
Number of pri	or entanglements	2			

Entanglement configuration	Rope through mouth and baleen
Anchoring points	Mouthline
Gear configuration confidence	Low
Remaining questions	Uncertain if flippers or tail involved
Comments	Scavenged heavily by sharks, relatively fresh

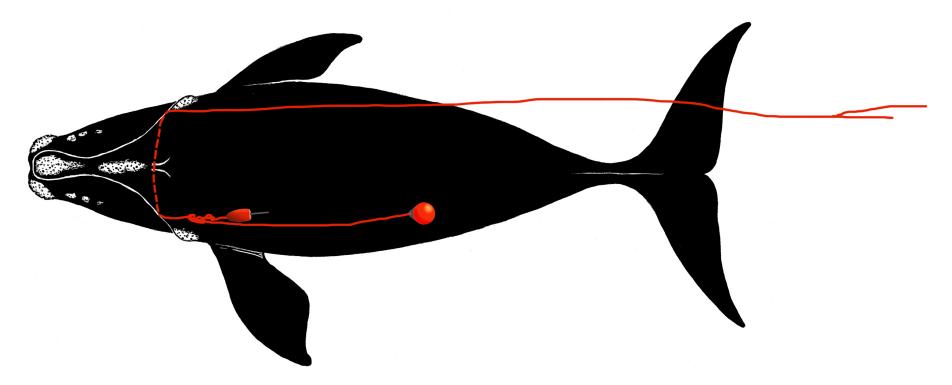
Polyn	ner type	
Gear con	nponent	
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
New		



Species	Right Whale	Whale ID	Eg # 3946
Opcoics	Ingile Wilaic	Wilaic ID	-5 " 33 TO

Date first observed entangled		20 Sep 20)13		
(date seen prior without gear)		(1 May 20	013)		
Sex	Female	Birth year	2009	Age at entanglement	4

Case study ID	CCS	NMFS	GEAR ID
	WR-2013-09	E10-13	
Gear sample collected?	No	Gear type	



Reproductive prior to/after entanglement detection No / No					
Entanglement injury severi				Moderate	
	Entangle	ment configuration risk		Low	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Medium	Medium	Medium	Medium	Medium
Duration of time carrying gear		Minimum 1 day, maximum 326 days			
	No				
	Alive, last seen in 2022				
Number of pri	or entanglements	2			

Entanglement configuration	Line through mouth with polyball and small buoy on left side, <1 body length of trailing gear
Anchoring points	Mouthline
Gear configuration confidence	High
Remaining questions	
Comments	Unusual lesions on back; gear shed

Polyn	ner type	
Gear component		Endline and buoy
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



20 Sep 2013 CWI/NEAq

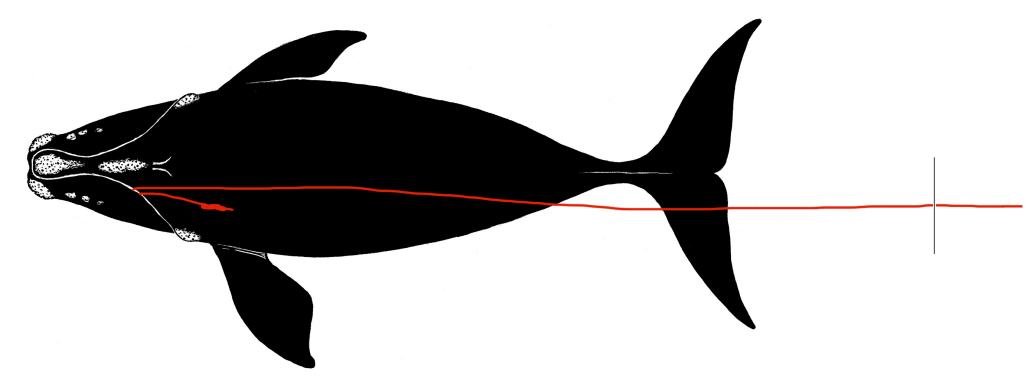


20 Sep 2013 CWI/NEAq

Species Right Whale	Whale ID Eg # 4057
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Date first observed entangled		16 Feb 2014			
(date seen prior without gear)		(18 Mar 2013)			
Sex	Male	Birth year	2010	Age at entanglement	4

Case study ID	CCS	NMFS		GEAR ID
	WR-2014-01	E01-14		J021614 rw
Gear sample collected?	Yes	Gear type	Unknowr	n Canadian trap



Reproductive prior to/after entanglement detection					
	iry severity	Severe			
	Entangle	ment configuration risk		High	
Wassad assessment	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Low	High	High	Low	Medium
Duration of t	ime carrying gear	Minimum 55 days, maximum 389 days			
Disentangled?		Yes, partial			
	Presumed	dead (in a diff	severe entangle	ement in 2016)	
Number of pri	or entanglements	3			

Entanglement configuration	Line entering/exiting left side of mouth with one end trailing 100 ft before sinking to depth
Anchoring points	Mouthline
Gear configuration confidence	High
Remaining questions	
Comments	Deep injury across rostrum, blowholes. Remaining gear shed

Polyn	ner type	Copolymer
Gear component		490' of end line with 180' of it leaded line spliced in
Rope diameter (inches)		5/8
Breaking strength (lbs)	Tested	
	New	9,000



30 Apr 2015 CCS

Species	Right Whale	Whale ID	Eg # 1142

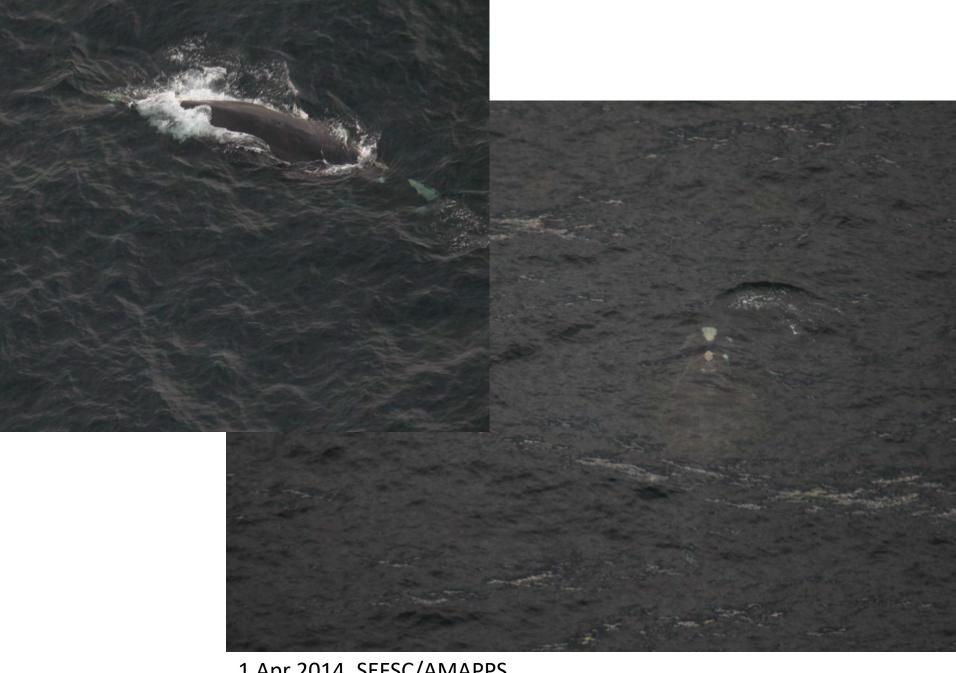
Date first observed entangled		1 Apr 201	.4		
(date seen prior without gear)		(8 Apr 20	11)		
Sex	Female	Birth year	Unk	Age at entanglement	37+

Case study ID	CCS	NMFS	GEAR ID
	WR-2014-02	E02-14	
Gear sample collected?	No	Gear type	

Reproduct	t detection	Yes/No			
	Entan	glement inju	ıry severity	Severe	
	Entangle	ment configi	uration risk	High	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unknown	High	Unknown	None	Unknown
Duration of time carrying gear		Minimum 1	L,571 days, n	naximum 2,6	559 days
Disentangled?		No - attempt in 2018 unsuccessful			
Status		Presumed dead - last sighted in 2018 still entangled			still entangled
Number of pri	or entanglements	3	•		

Entanglement configuration	Single tight wrap on rostrum
Anchoring points	Mouthline
Gear configuration confidence	Low
Remaining questions	Not known if flippers involved
Comments	Condition declined by 2018 sightings

Polymer type		
Gear con	nponent	
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



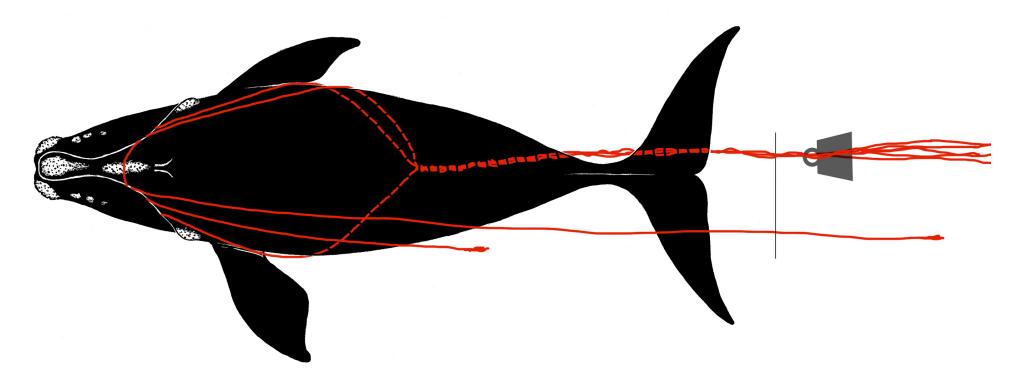
1 Apr 2014, SEFSC/AMAPPS

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Species	Right Whale	Whale ID	Eg # 1131
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Date first observed entangled		29 Jun 2014			
(date seen prior without gear)		(22 May 2010)			
Sex	Male	Birth year	Unk	Age at entanglement	35+

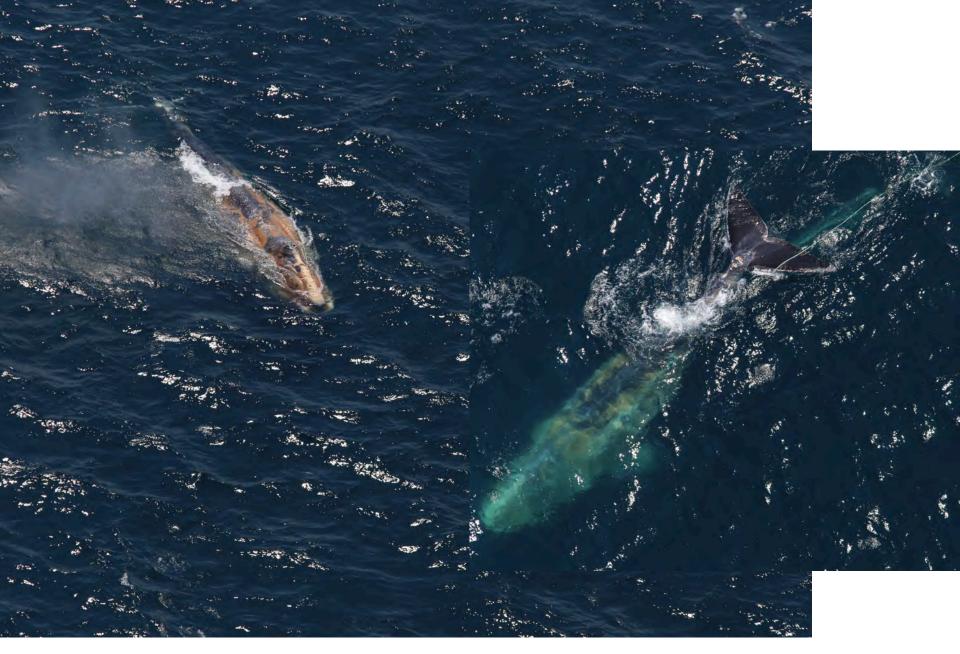
Case study ID	CCS	NMFS	GEAR ID
	WR-2014-08	E09-14	
Gear sample collected?	No	Gear type	



Reproductive prior to/after entanglement detection					
	ıry severity	Severe			
	Entangle	ment configuration risk		High	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unknown	High	High	Unknown	Unknown
Duration of t	ime carrying gear	Minimum 1 day, maximum 1,498 days			
Disentangled?		No			
Status		Likely dead, no subsequent sightings			S
Number of pri	or entanglements	3			

Entanglement configuration	Wrap of rostrum, presumably trailing heavy gear
Anchoring points	Mouthline
Gear configuration confidence	High
Remaining questions	
Comments	Very poor condition

Polymer type		
Gear component		
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



29 Jun 2014, NEFSC

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Snecies	Right Whale	Whale ID	Fg # 4001
Species	Mgm vviidic	Wilaic ID	FP 11 4001

Date first observed entangled		20 Aug 2014				
(date seen prior without gear)		(12 Apr 2014)				
Sex	Male	Birth year	2010	Age at entanglement	4	

Case study ID	CCS	NMFS	GEAR ID
	WR-2014-15	E17-14	
Gear sample collected?	No	Gear type	

Reproduct	t detection				
	Entanglement injury severity				
	Entangle	ment configi	uration risk	High	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unknown	High	Unknown	None	None
Duration of time carrying gear		Minimum 3	38 days, max	imum 182+	days
Disentangled?		No			
Status		Presumed dead - Last seen in 2014 still entangled			
Number of pri	or entanglements	2			

Entanglement configuration	Single line across blowholes which has become embedded over time
Anchoring points	Head
Gear configuration confidence	Low
Remaining questions	Flipper involvement, trailing gear unknown
Comments	

Polymer type		
Gear component		
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	







4 Sep 2014, NEAq



12 Oct 2014, Opportunistic sighting

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Species	Right Whale	Whale ID	Unid carcass

Date first observed entangled		4 Sep 2014			
(date seen prior without gear)		(unknown)			
Sex	Unk	Birth year	Unk	Age at entanglement	Unk

Case study ID	CCS	NMFS	GEAR ID
	WR-2014-17	E18-14	
Gear sample collected?	No	Gear type	

Reproduct	t detection				
	Entan	glement inju	ıry severity		
	Entangle	ment configi	uration risk	High	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity					
Duration of time carrying gear		Minimum 1	L day, maxim	num unknow	'n
Disentangled?		No			
Status		Dead			
Number of pri	or entanglements				

Entanglement configuration	Line wrapped around body and right flipper and crossing head.
Anchoring points	Flipper, mouth?
Gear configuration confidence	Low
Remaining questions	Unsure if left flipper and mouth involved
Comments	Documented during an aerial DFO flight in GoSL

Polymer type		
Gear con	nponent	
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



4 Sep 2014 DFO/MART

- "
Eg # 3279

Date first observed entangled			17 Sep 20)14	
(date seen prior without gear)		(21 Apr 2014)			
Sex Male Birth year		2002	Age at entanglement	12	

Case study ID	CCS	NMFS	GEAR ID
	WR-2014-18	E20-14	
Gear sample collected?	No	Gear type	

Reproductive prior to/after entanglement detection					
	ıry severity	Severe			
	Entangle	ment configi	uration risk	High	
Manual annualta	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unknown	High	Unknown	None	High
Duration of t	ime carrying gear	Minimum 1	L day, maxim	um 148+ da	ys
Disentangled?		No			
	Presumed	dead - no sul	bsequent sig	htings	
Number of pri	or entanglements	1			

Entanglement configuration	Line embedded in blowholes and also through right mouth
Anchoring points	Mouthline, head
Gear configuration confidence	Low
Remaining questions	Unknown if flippers involved
Comments	Entanglement injuries also at tail

Polymer type		
Gear component		
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



17 Sep 2014 CWI/NEAq



17 Sep 2014 CWI/NEAq

17 Sep 2014 CWI/NEAq

Species	Right Whale	Whale ID	Unid carcass

Date first observed entangled			27 Sep 20)14	
(date seen prior without gear)		(unknown)			
Sex	Sex Unk Birth year		Unk	Age at entanglement	Unk

Case study ID	CCS	NMFS	GEAR ID
	WR-2014-20	E22-14	J092714 rw
Gear sample collected?	No	Gear type	

Reproductive prior to/after entanglement detection					
	glement inju	ıry severity			
	ment configi	uration risk	High		
Manada and the	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity					
Duration of t	ime carrying gear	Minimum 1	l day, maxim	um unknow	n
Disentangled?		No			
	Dead				
Number of pri	or entanglements				

Entanglement configuration	Line around right flipper, across rostrum and around body
Anchoring points	Flipper, body
Gear configuration confidence	Low
Remaining questions	Unsure if mouth, left flipper, tail involved
Comments	Orange polyball next to body; observed in southern New England

Polymer type		
Gear component		
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



27 Sep 2014, US Coast Guard

Species	Right Whale	Whale ID	Unid

Date first observed entangled		13 Jun 2015			
(date	(date seen prior without gear)		(unknown)		
Sex	Unk	Birth year	Unk	Age at entanglement	Unk

Case study ID	CCS	NMFS GEAF	
	WR-2015-05		
Gear sample collected?	No	Gear type	

Reproduct	t detection				
	glement inju	ıry severity			
	ment configuration risk		High		
Marind acreathr	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity					
Duration of time carrying gear		Minimum 1	l day, maxim	num unknow	'n
Disentangled?		No			
Status		Alive at sig	hting		
Number of pri	or entanglements				

Entanglement configuration	Towing two balloon buoys after first observed struggling
Anchoring points	Unknown
Gear configuration confidence	Low
Remaining questions	
Comments	Poor photodocumentation

Polymer type		
Gear con	nponent	
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	

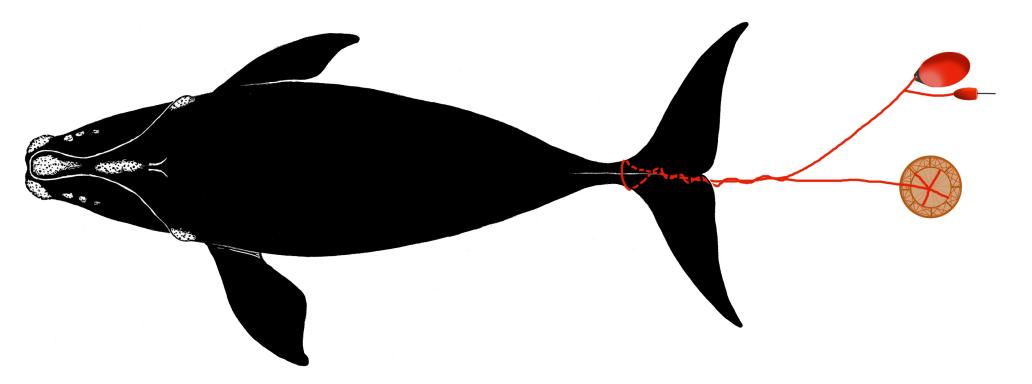


13 Jun 2015, BIWSC

Species Right Whale Whale ID Eg # 3160	
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Date first observed entangled		18 Jul 201	15		
(date seen prior without gear)		(28 May 2	2015)		
Sex	Male	Birth year	2001	Age at entanglement	14

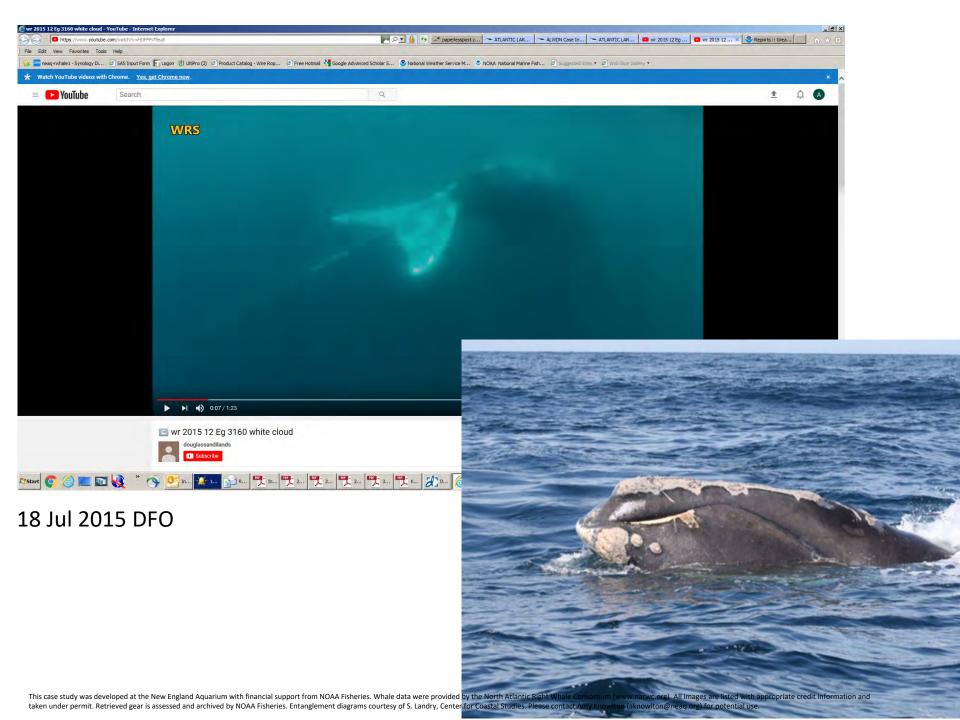
Case study ID	CCS	NMFS		GEAR ID
	WR-2015-12	E13-15		
Gear sample collected?	No	Gear type	Canadia	n snow crab



Reproduc					
	Severe				
	ment configuration risk		High		
Marinal accordan	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Medium	Low	Unknown	Unknown	High
Duration of time carrying gear		Minimum 1 day, maximum 50 days			
Disentangled?		Yes - 18 Jul 2015			
Status		Presumed dead - No subsequent sightings			htings
Number of pri	or entanglements	3			

Entanglement configuration	Multiple wraps embedded around peduncle with line going to depth and then back up to buoys.
Anchoring points	Tail
Gear configuration confidence	High
Remaining questions	
Comments	Disentanglers described it as 25 mm polysteel rope

Polymer type		Copolymer
Gear component		
Rope diameter (inches)		~ 1 inch
Breaking strength (lbs)	Tested	
	New	~19,000



Species	Right Whale	Whale ID	Eg # 1306

Date first observed entangled		13 Sep 2015				
(date seen prior without gear)		(8 May 2015)				
Sex	Male	Birth year	Unk	Age at entanglement	32+	

Case study ID	CCS	NMFS	GEAR ID
	WR-2015-22	E24-15	
Gear sample collected?	No	Gear type	

Reproduct	t detection	Yes/Unk			
	Severe				
	Entangle	ment configi	uration risk	Low	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Low	None	Unknown	Low	High
Duration of t	ime carrying gear	Minimum 3	368 days, ma	ximum 495+	- days
Disentangled?		No			
Status		Presumed	dead - Last s	een in 2016	still entangled
Number of pri	or entanglements	3			

Entanglement configuration	Short line woven in front right side of baleen and trailing partway down right body
Anchoring points	Mouthline
Gear configuration confidence	High
Remaining questions	
Comments	Deep wound at right insertion, poor condition

Polymer type		
Gear con	nponent	
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



Species	Right Whale	Whale ID	Unid

Date first observed entangled		28 Sep 2015			
(date seen prior without gear)		(unknown)			
Sex	Unk	Birth year	Unk	Age at entanglement	Unk

Case study ID	CCS	NMFS	GEAR ID
	WR-2015-28		
Gear sample collected?	P No Gear type		

Reproductive prior to/after entanglement detection					
	ıry severity				
	Entangle	ment configi	uration risk	Unknown	
	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity					
Duration of time carrying gear		Minimum 1	l day, maxim	num unknow	n
Disentangled?		No			
Status		Alive at sig	hting		
Number of pri	or entanglements				

Entanglement configuration	Two lines traling off tail to depth when fluking
Anchoring points	Unknown
Gear configuration confidence	Low
Remaining questions	Is there weighted gear attached?
Comments	Poor photodocumention

Polymer type		
Gear con	nponent	
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	

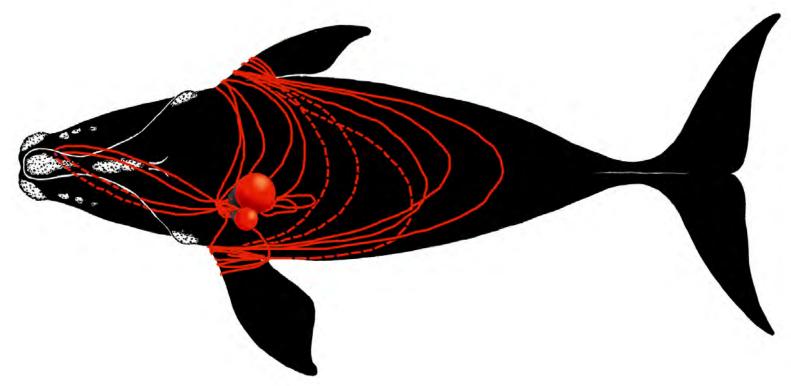


28 Sep 2015, Whale watch boat

	51 1 . 144 1	144 1 15	40
Species	Right Whale	Whale ID	405/

Date first observed entangled (date seen prior without gear)		13 Aug 2016 (30 Mar 2016)			
Sex	Male	Birth year	2010	Age at entanglement	6

Case study ID	CCS	NMFS		GEAR ID
	WR-2016-20	E22-16		
Gear sample collected?	Yes	Gear type	Canadiar	snow crab



Reproductive prior to/after entanglement detection					
	Entan	glement inju	ıry severity	Severe	
	Entangle	ment configi	uration risk	High	
Mound soverity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	High	High	Unknown	Unknown	High
Duration of time carrying gear		Minimum 1	L day, maxim	ıum 135+ da	iys
Disentangled?		Yes, partial - 13 Aug 2016			
	Presumed	dead - no sul	osequent sig	htings	
Number of pri	or entanglements	4			

Entanglement configuration	Multiple lines through mouth, across back and wrapping both flippers
Anchoring points	Mouth, flippers
Gear configuration confidence	High
Remaining questions	None
Comments	Whale in poor condition

Polyn	ner type	Copolymer
Gear component		Buoys and endline - float and leaded sink
Rope diameter (inches)		5/8 (0.625)
Breaking strength (lbs)	Tested	
	New	9 000



Species	Right Whale	Whale ID	1152

Date first observed entangled		16 Aug 20	016		
(date seen prior without gear)		(6 Apr 20	16)		
Sex	Male	Birth year	Unk	Age at entanglement	36+

Case study ID	CCS	NMFS	GEAR ID
	WR-2016-23	E26-16	
Gear sample collected?	No	Gear type	

Reproduct					
	Entan	glement inju	ıry severity	Severe?	
	Entangle	ment configu	ıration risk	Low?	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unknown	Unknown	Unknown	Unknown	Unknown
Duration of t	ime carrying gear	Minimum 1	day, maxim	num 131+ da	ıys
Disentangled?		No			
	Presumed o	dead - no su	bsequent sig	htings	
Number of pri	or entanglements	5			

Entanglement configuration	Spindle buoy trailing ~ 1/2 body length behind whale, black lines observed across back
Anchoring points	Flipper or mouth
Gear configuration confidence	Low
Remaining questions	Unsure how the gear is attached; may be gear free
Comments	Initially seen from shore, DFO responded

Polymer type		
Gear component		Buoy and end line
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



Species	Right Whale	Whale ID	2608

Date first observed entangled		28 Aug 20	016		
(date seen prior without gear)		(1 Aug 2016)			
Sex	Male	Birth year	1996	Age at entanglement	20

Case study ID	CCS	NMFS	GEAR ID
	WR-2016-25	E28-16	
Gear sample collected?	No	Gear type	

Reproduc					
	Severe				
	Entangle	ment configi	uration risk	High	
Maria di ancarita	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unknown	Low	Unknown	Unknown	Unknown
Duration of t	time carrying gear	Minimum 27 days, maximum 367 days			
Disentangled?		No			
	Presumed dead - no subsequent sightings				
Number of pri	or entanglements	3			

Entanglement configuration		One line wrapped over rostrum with a cluster of other lines attached	
Anchorin	g points	Mouth, flipper?	
Gear configuration cor	nfidence	Low	
Remaining questions		Unsure where rope is attached	
Comments		On 8/1/16 had severe entanglement injuries but no	
		rope observed	
Polyn	ner type		
Gear component			
Rope diameter (inches)			
Breaking strength (lbs)	Tested		
	New		



28 Aug 2016 BIWSC

Species Right Whale Whale ID 4320

Date first observed entangled 1 Se		1 Sep 201	1 Sep 2016		
(date seen prior without gear)		(17 Apr 2016)			
Sex	Male	Birth year	2013	Age at entanglement	3

Case study ID	CCS	NMFS		GEAR ID
		E30-16		
Gear sample collected?	Yes	Gear type	Canadian	snow crab

Reproduc					
	Severe				
	Entangle	ment configi	uration risk	High	
Maria di ancarita	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unknown	Unknown	High	Unknown	Unknown
Duration of t	ime carrying gear	Minimum 1 day, maximum 136 days			
Disentangled?		No			
	Dead				
Number of pri	or entanglements	2			

Entanglement configuration	Multiple constricting wraps around right flipper
Anchoring points	Flipper
Gear configuration confidence	Low
Remaining questions	Unsure what other body parts were involved
Comments	Found dead on Sable Island, Nova Scotia; decomposed

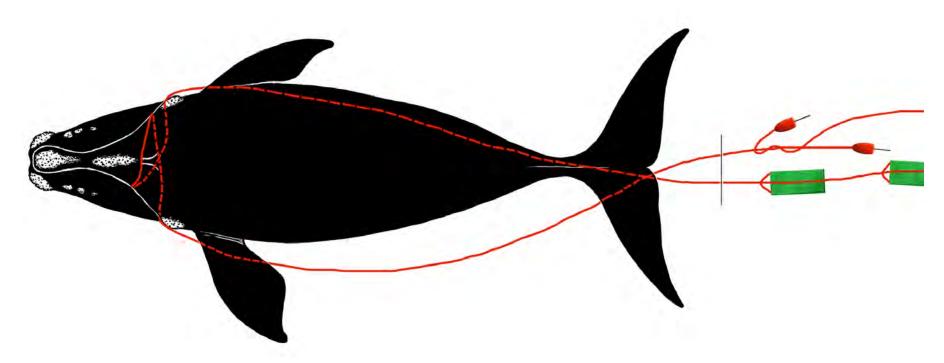
Polymer type		
Gear con	nponent	Buoys and end line
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



Species	Right Whale	Whale ID	3823
00000			00_0

		ved entangled r without gear)	22 Sep 20 (19 Sep 2	•	
Sex	Female	Birth year	2008	Age at entanglement	8

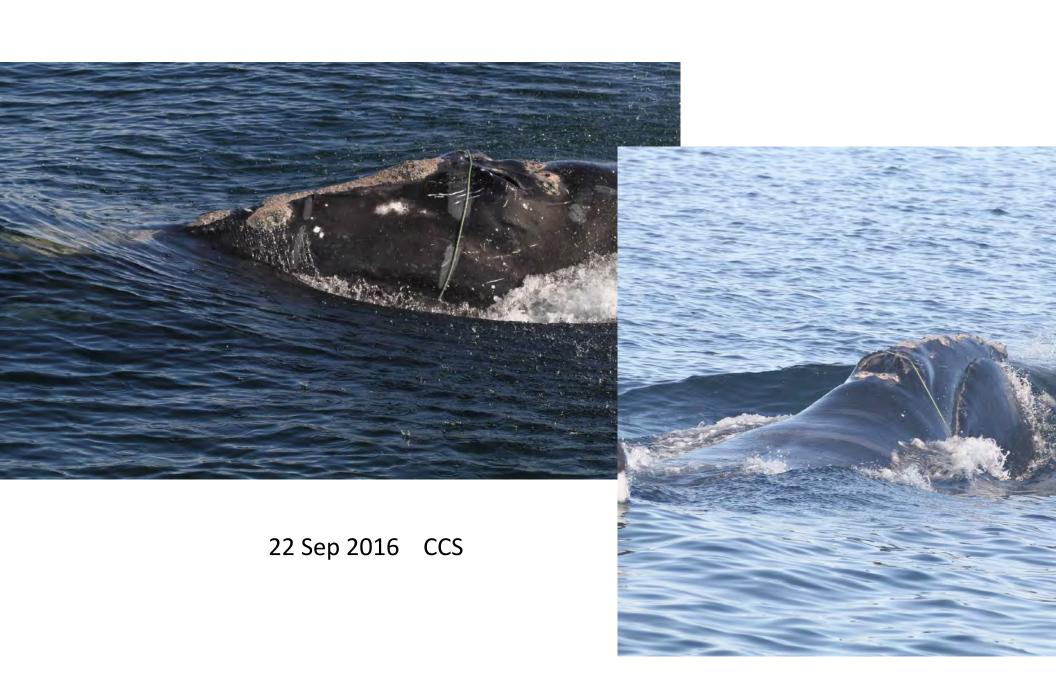
Case study ID	CCS	NMFS		GEAR ID
	WR-2016-33	E36-16		
Gear sample collected?	Yes	Gear type	US NE tra	p/pot, nearshore



Reproduct	No/ No				
Entanglement injury seve				Moderate	
	Entangle	ment configi	uration risk	High	
Marind agreeiter	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unknown	Low	Unknown	Unknown	Medium
Duration of t	ime carrying gear	Minimum 1 day, maximum 4 days (based on gear set date)			
	Yes, partial				
	Alive? - last seen in 2022 in new entanglement				
Number of pri	or entanglements	3			

Entanglement configuration	Single line through mouth across head leading to heavy gear below
Anchoring points	Mouth
Gear configuration confidence	High
Remaining questions	None
Comments	Found 2 buoy lines from 2 20-pot trawls set in MA state waters

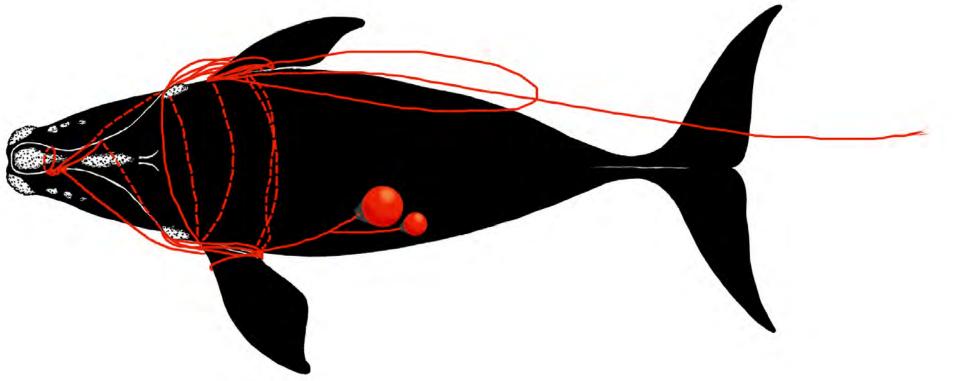
Polymer type		PP/PET
Gear con	nponent	2 buoys and 2 endlines
Rope diameter	(inches)	3/8 (0.375)
Breaking strength (lbs)	Tested	
	New	2 600



Species	Right Whale	Whale ID	3694
00000		*******	000.

		J	23 Sep 20 (12 Feb 2		
Sex	Female	Birth year	Unk	Age at entanglement	11+

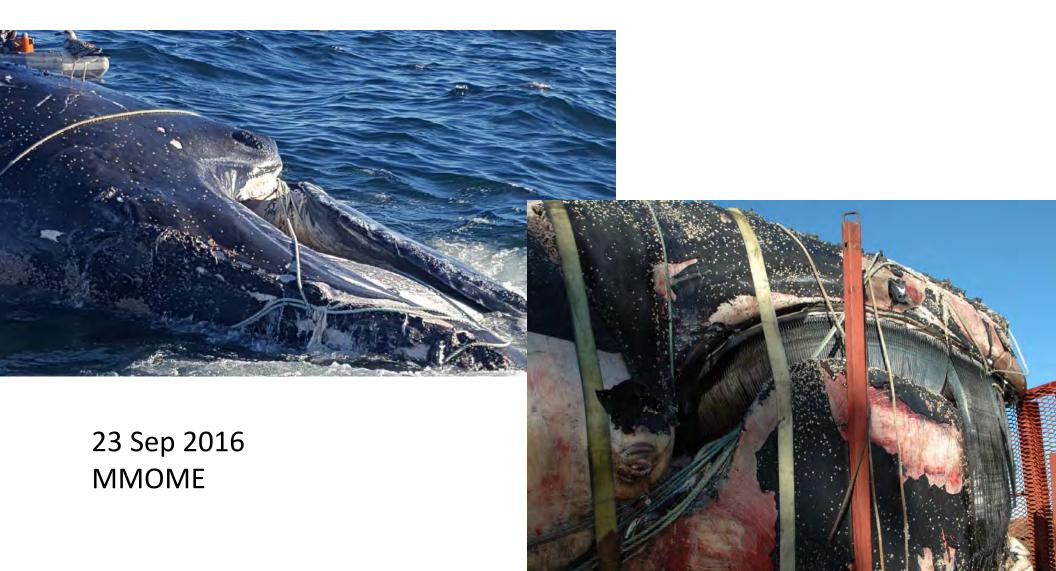
Case study ID	CCS	NMFS		GEAR ID
		E37-16		
Gear sample collected?	Yes	Gear type	Canadian	snow crab



Reproductive prior to/after entanglement detection				No/ -	
	Entangl			Severe	
	ment configuration risk		High		
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	High	High	High	Medium	High
Duration of t	ime carrying gear	Minimum 1 day, maximum 223 days			
Disentangled?		No			
	Dead				
Number of pri	or entanglements	2			

Entanglement configuration	Line wrapped multiple times over rostrum, around head, thru baleen, and around both flippers
Anchoring points	Flippers, mouth
Gear configuration confidence	High
Remaining questions	None
Comments	Found floating dead off Boothbay, ME

Polymer type		Copolymer
Gear con	nponent	Buoy and end line - float and leaded sink
Rope diameter	(inches)	5/8 (0.625)
Breaking strength (lbs)	Tested	
	New	9 000



Species	Right Whale	Whale ID	3405

Date first observed entangled			4 Dec 201	16			
(date	(date seen prior without gear)			(4 Sep 2016)			
Sex	Sex Female Birth year		2004	Age at entanglement	12		

Case study ID	CCS	NMFS		GEAR ID
	WR-2016-41	E44-16		
Gear sample collected?	No	Gear type	Gillnet	

Reproduct	ive prior to/after e	ntanglement	t detection	Yes/ No	
	Entan	glement inju	ıry severity	Severe	
	Entangle	ment configu	uration risk	High	
Mound soverity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Low	Low	Unknown	Unknown	Unknown
Duration of t	ime carrying gear	Minimum 1 day, maximum 90+ days			'S
	Disentangled?	No			
	Presumed dead - no subsequent sightings			htings	
Number of pri	or entanglements	1			

Entanglement configuration	Two lines with gillnetting tightly wrapped from right head, across blowholes, towards left flipper
Anchoring points	Flipper, mouth?
Gear configuration confidence	Low
Remaining questions	Unsure if left flipper and mouth involved
Comments	Documented near Rockaway Inlet near New York City

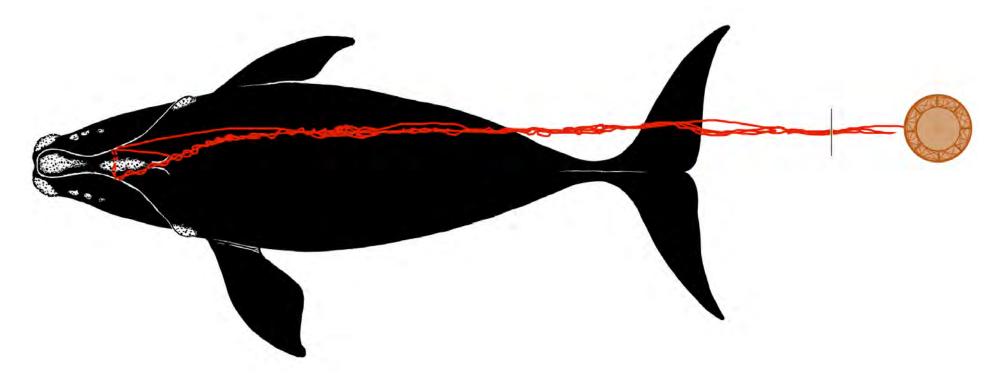
Polyn	ner type	
Gear component		Gillnet webbing and ropes
Rope diameter (inches)		
Breaking strength (lbs) Tested		
	New	



Species	Right Whale	Whale ID	3530
Opcoics	INDIIC WILLIAM	Wilaic ID	3330

Date first observed entangled (date seen prior without gear)		5 Jan 2017 (14 Aug 2016)				
Sex	Male	Birth year	2004	Age at entanglement	13	

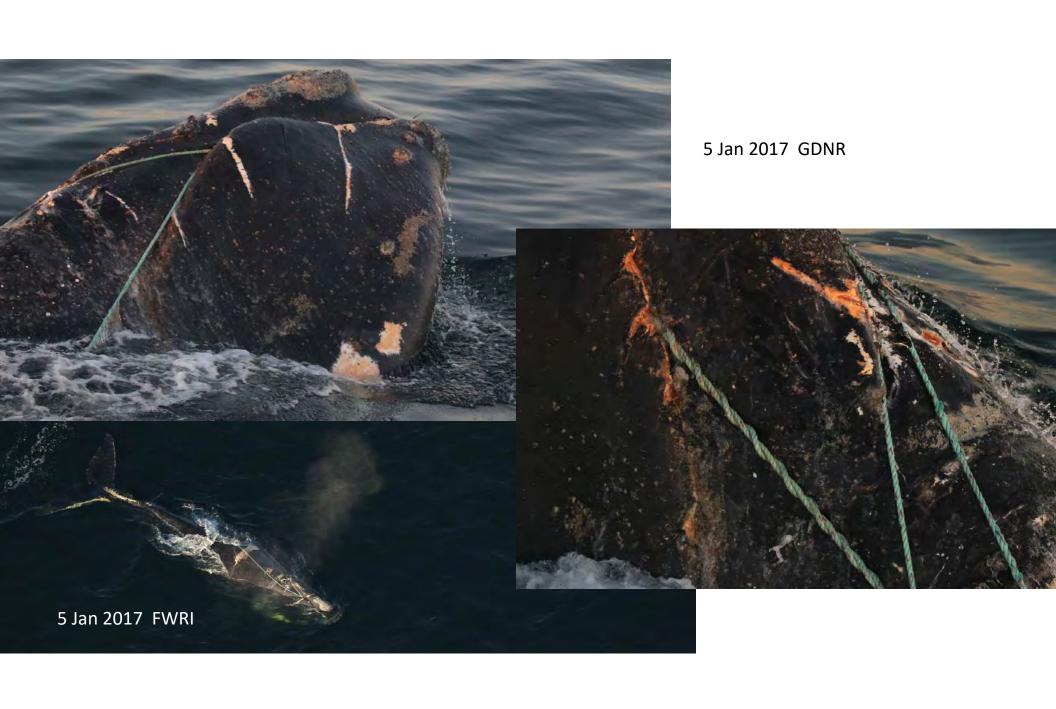
Case study ID	CCS	NMFS		GEAR ID
·	WR-2017-02	E02-17		
Gear sample collected?	Yes	Gear type	Canadian	snow crab



Reproduct	t detection				
	ıry severity	Severe			
	Entangle	ment configu	uration risk	High	
	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unknown??	Low	Unknown	Low	High
Duration of t	ime carrying gear	Minimum unknown, maximum 143 days			
	Yes				
	Alive, last seen in 2022				
Number of pri	or entanglements	2			

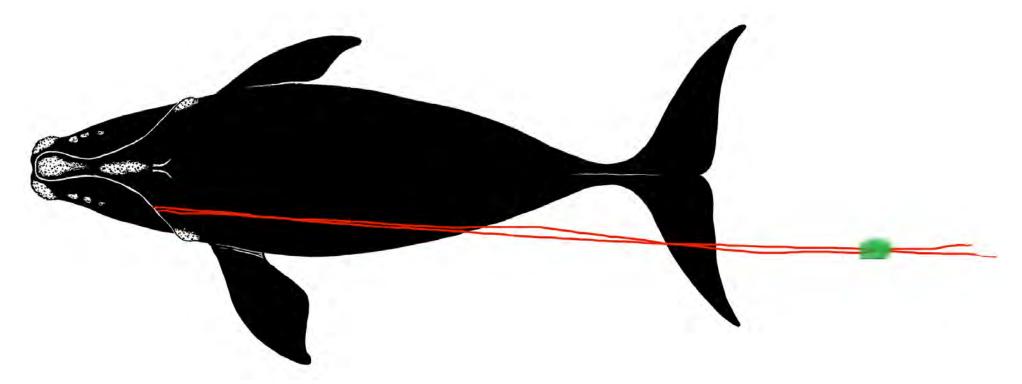
Entanglement configuration	Two lines exiting either side of mouth forming a bridle and trailing behind whale at depth
Anchoring points	Mouth
Gear configuration confidence	High
Remaining questions	None
Comments	451 ft of endline and crab pot recovered

Polyn	ner type	Copolymer with lead strand in sections (assumed)
Gear con	nponent	Endline and crab pot
Rope diameter (inches)		5/8
Breaking strength (lbs)	Tested	
	New	9,000



Date first observed entangled			23 Apr 20)17	
(date seen prior without gear)		(12 Apr 2017)			
Sex	Female	Birth year	2011	Age at entanglement	6

Case study ID	CCS	NMFS		GEAR ID
	WR-2017-03	E03-17		
Gear sample collected?	No	Gear type	US NE nea	arshore lobster



Reproduct	No/ No				
Entanglement injury severity				Minor	
Entanglement configuration				Low	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Low	None	None	Low	Low
Duration of t	ime carrying gear	Minimum 1 day, maximum 12 days			
Disentangled?		No			
	Alive, last seen in 2022				
Number of pri	or entanglements	1			

Entanglement configuration	Line caught left side of mouth and trailing ~1 body length. Whale moving fast in Cape Cod Bay, fresh scars on tail.
Anchoring points	Mouth
Gear configuration confidence	High
Remaining questions	
Comments	Gear eventually shed

Polymer type		
Gear con	nponent	
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



Species	Right Whale	Whale ID	3603

Date first observed entangled (date seen prior without gear)		21 Jun 20 (23 Apr 2			
Sex	Female	Birth year	2006	Age at entanglement	11

Case study ID	CCS	NMFS		GEAR ID
		E05-17		
Gear sample collected?	No, except buoy #s	Gear type Canadian snow co		snow crab

Reproduct	No/no				
	Entanglement injury severity				
	Entangle	ment configi	uration risk	High	
Mound soverity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	High	Unknown	High	Unknown	Unknown
Duration of t	ime carrying gear	Minimum 1 day, maximum 10 days			
	No				
	Dead				
Number of pri	or entanglements	2			

Entanglement configuration	Multiple ropes with buoys attached through mouth, around both flippers and across ventrum
Anchoring points	Mouth, flippers
Gear configuration confidence	Low
Remaining questions	At least 2 sets of gear, maybe 4.
Comments	Found anchored in gear, dragged first gear 8 miles

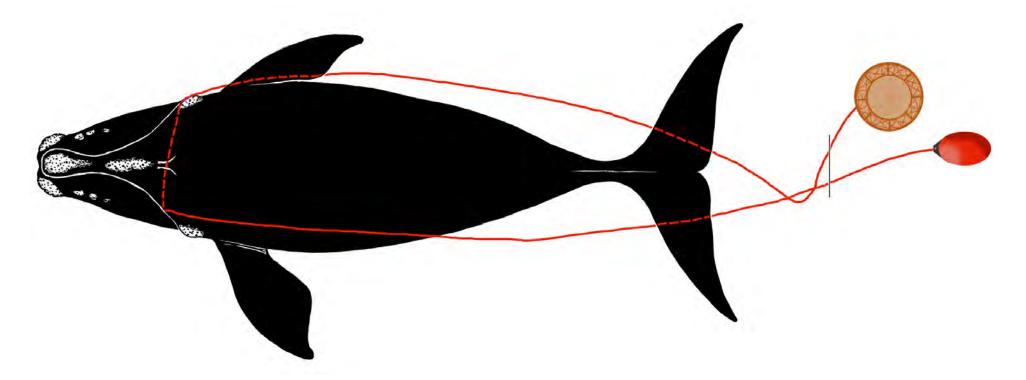
Polyr	ner type	Unknown
Gear component		Buoys and end line
Rope diameter (inches)		1/2, 5/8, 3/4 inch
Breaking strength (lbs)	Tested	
	New	7 650 to 12 000 for 3/4 in (depending on polymer)



Species	Right Whale	Whale ID	4510

Date first observed entangled			5 Jul 2017	7	
(date seen prior without gear)		(25 Jun 2017)			
Sex	Female	Birth year		Age at entanglement	3+

Case study ID	CCS	NMFS		GEAR ID
	WR-2017-06	E06-17		
Gear sample collected?	Yes	Gear type	Canadian snow crab	



Reproduct	tive prior to/after e	entanglement detection No/ No			
	Entan	nglement injury severity		Moderate	
	ment configi	uration risk	High		
Mound soverity	Head/ rostrum	Flippers	Body	Flukes	
Wound severity	Unknown	Low	Unknown	Unknown	Medium
Duration of t	Minimum 1 day, maximum 9 days				
	Yes - 5 Jul 2017				
	Alive, last seen in 2022				
Number of pri	or entanglements	0			

Entanglement configuration	Rope and buoy exiting left mouth and fouled on line out of right mouth and going to weight at depth; anchored/dragging gear
Anchoring points	Mouth
Gear configuration confidence	High
Remaining questions	
Comments	Extensive rope burn on body, raw wounds at tail

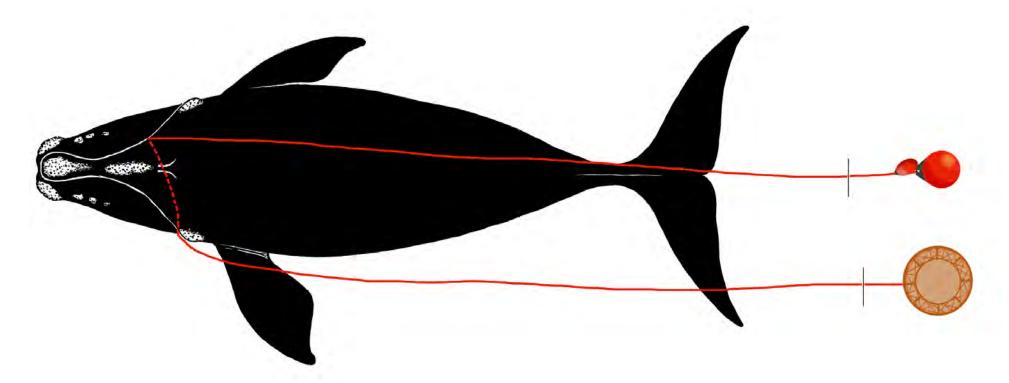
Polyr	ner type	
Gear con	nponent	End line and crab trap (per DFO)
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



	Species	Right Whale	Whale ID	1317
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Date first observed entangled			8 Jul 2017	7	
(date seen prior without gear)			(23 Apr 2	017)	
Sex	Male	Birth year	1983	Age at entanglement	34

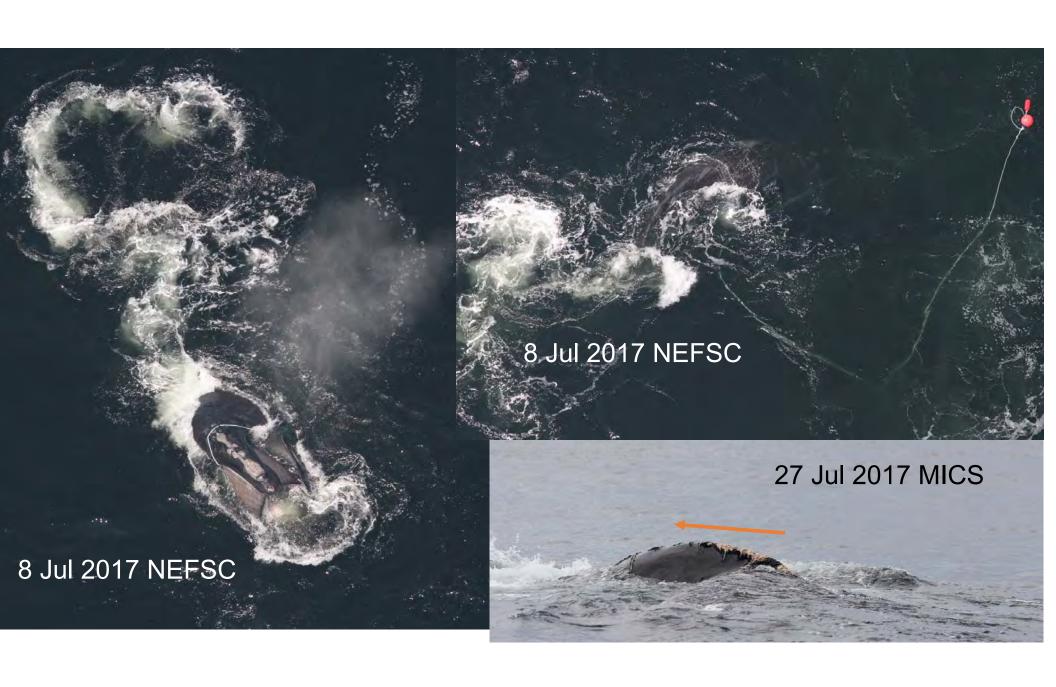
Case study ID	CCS	NMFS		GEAR ID
	WR-2017-09	E09-17		
Gear sample collected?	Yes	Gear type	Canadian snow crab	



Reproduct	tive prior to/after e	ntanglement detection Yes/			
	Entan	nglement injury severity		Severe	
	ment configuration risk		Low		
Mound soverity	Head/ rostrum	Flippers	Body	Flukes	
Wound severity	None	None	Unknown	None	High
Duration of t	Minimum 1 day, maximum 91 days				
	No				
	Alive, last seen in 2022				
Number of pri	or entanglements	4			

Entanglement configuration	Single line through mouth and over rostrum
Anchoring points	Mouth
Gear configuration confidence	High
Remaining questions	Gear shed; length of buoy line not reported
Comments	Blood in water from injuries at tail stock, prob recent

Polyn	ner type	
Gear con	nponent	End line and crab pot (per DFO)
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



Species	Right Whale	Whale ID	4123

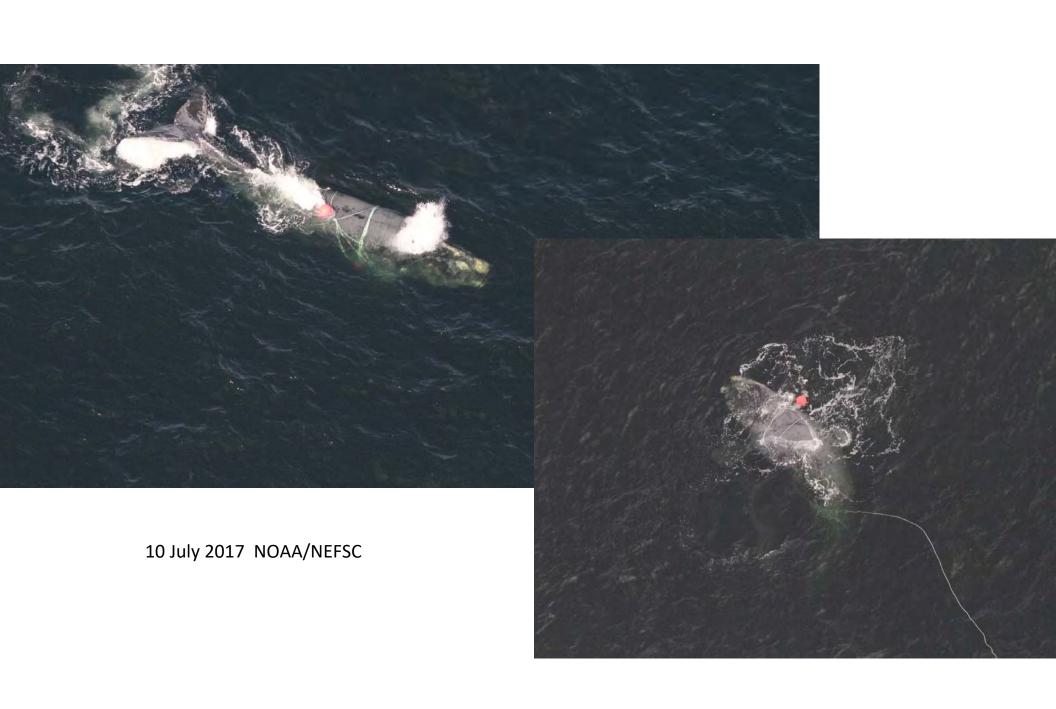
D	Date first observed entangled			9 Jul 2017				
(c	(date seen prior without gear)			(8 Jul 201	7)			
	Sex Male Birth year		2011	Age at entanglement	6			

Case study ID	CCS	NMFS		GEAR ID
	WR-2017-10	E10-17		
Gear sample collected?	No	Gear type	Canadian	snow crab

Reproduct	tive prior to/after e	ntanglemen	t detection		
	Entan	ıglement inju	ıry severity	Moderate	
	Entangle	ment configi	uration risk	High	
NA/aad aassa miks	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unknown	None	Unknown	Low	Medium
Duration of t	ime carrying gear	Minimum 2 days, maximum 3 days			
	Yes - July 10, 2017				
	Likely dead, last seen in 2018 in good condition				
Number of pri	or entanglements	1			

Entanglement configuration	Multiple wraps of endline and buoy around body with weighted gear heading to seafloor
Anchoring points	Unsure if mouth and/or flippers involved
Gear configuration confidence	Low
Remaining questions	
Comments	Whale appeared to be semi-anchored

Polyr	ner type	
Gear con	nponent	Buoy and end line
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



Species Right Whale Whale ID 4094

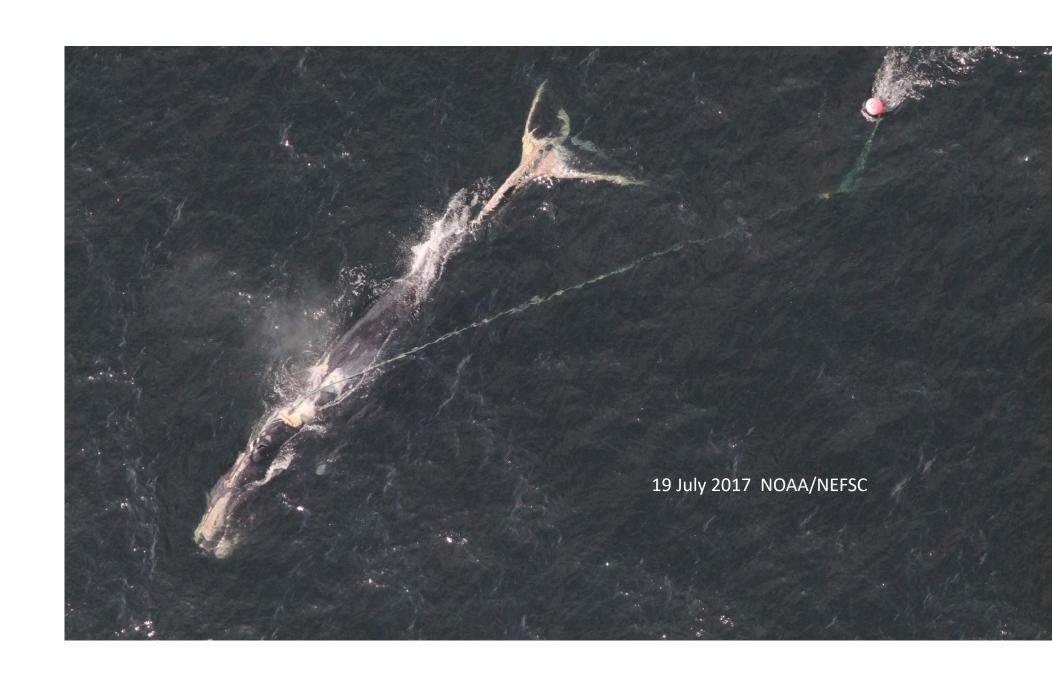
Date f	Date first observed entangled			19 Jul 2017				
(date s	(date seen prior without gear)			(23 Apr 2017)				
Sex	Female	Birth year	2010	Age at entanglement	7			

Case study ID	CCS	NMFS		GEAR ID
	WR-2017-13	E13-17		
Gear sample collected?	No	Gear type	Canadian	snow crab

Reproduct	tive prior to/after e	entanglement detection		Yes/No		
	Entan	nglement injury severity		Severe		
	Entangle	ment configi	uration risk	High		
Mound soverity	Mouth	Head/ rostrum	Flippers	Body	Flukes	
Wound severity	Medium	Medium	Unknown	High	High	
Duration of t	ime carrying gear	Minimum 1 day, maximum 86+ days			S	
	Disentangled?			No		
	Presumed dead - no subsequent sightings					
Number of pri	or entanglements	2				

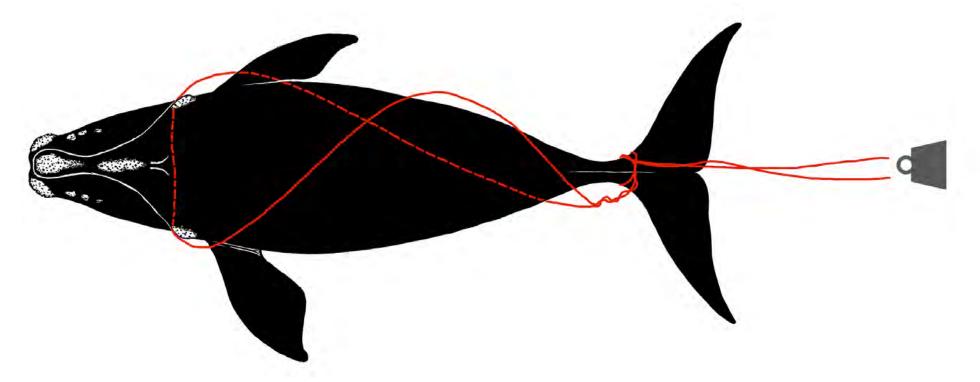
Entanglement configuration	Single line through mouth and trailing about 1 body length to a poly buoy
Anchoring points	Mouth
Gear configuration confidence	0
Remaining questions	Unclear if weighted gear attached aft of buoy
Comments	Whale in poor condition, deep injuries at tail

Polyn	ner type	
Gear con	nponent	Buoy and end line
Rope diameter (inches)		
Breaking strength (lbs) Tested		
	New	



Date first observed entangled		28 Aug 2017			
(date seen prior without gear)		(25 Aug 2	017)		
Sex	Male	Birth year	2002 Age at entanglement		15

Case study ID	CCS	NMFS		GEAR ID
	WR-2017-27	E28-17		
Gear sample collected?	No	Gear type Canadian - unl		- unknown



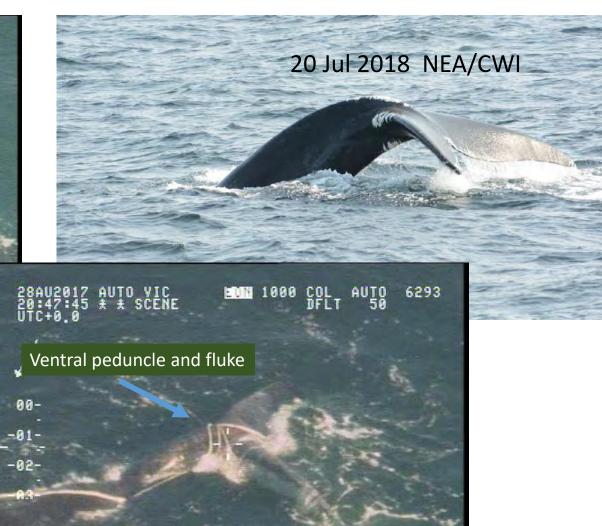
Reproduc					
	Entan	glement inju	ıry severity	Severe	
	Entangle			High	
Marin di ancomito c	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	None	None	Unknown	None	High
Duration of t	time carrying gear	Minimum 1 day, maximum 3 days			
Disentangled?		No			
	Alive, last seen in 2022				
Number of pri	or entanglements	1			

Entanglement configuration	Line through mouth and around peduncle
Anchoring points	Mouth, tail
Gear configuration confidence	High
Remaining questions	Weight may have been attached
Comments	Gear shed; entangled in Gulf of St Lawrence

Polymer type		
Gear con	nponent	
Rope diameter	(inches)	Noted as larger diameter rope
Breaking strength (lbs)	Tested	
	New	



28 Aug 2017 TC



28 Aug 2017 TC

Species	Right Whale	Whale ID	4504

Date first observed entangled (date seen prior without gear)		15 Sep 20 (29 Jul 20			
Sex	Female	Birth year	2015 Age at entanglement		2

Case study ID	CCS	NMF	S	GEAR ID
		E30-17		
Gear sample collected?	Yes	Gear type	Canadian	snow crab

Reproductive prior to/after entanglement detection				No/ -	
	Entan	ıglement inju	ıry severity	Severe	
	Entangle	ment configi	uration risk	High	
NA/a um al a su carido u	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	High	High	High	Medium	Unknown
Duration of t	ime carrying gear	Minimum 1 day, maximum 47 days			
Disentangled?		No			
	Dead				
Number of pri	or entanglements	0			

Entanglement configuration	Three lines through mouth and two wraps around body and flippers; may have drowned in gear
Anchoring points	Mouth, flipper
Gear configuration confidence	Low
Remaining questions	Old pot but new ropes - not sure if derelict or active
Comments	499 ft line in 3 sections of 3/4 in and 7/8 in

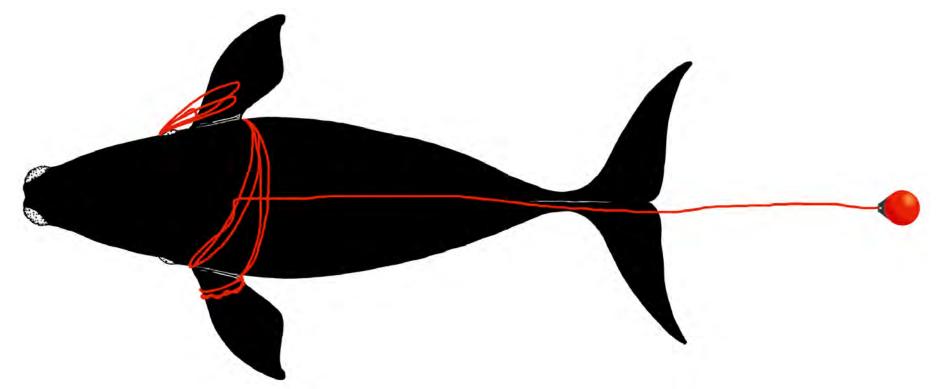
Polymer type		Uncertain but will presume polypro/polyester (weakest)
Gear con	nponent	End line and crab trap
Rope diameter	(inches)	3/4 (0.7848); 7/8 (0.875)
Breaking strength (lbs)	Tested	
	New	8 500; 10 225



Species	Right Whale	Whale ID	3893
0 0 0 0 0 0 0			

		ved entangled r without gear)	22 Jan 20 (29 Jul 20	_	
Sex	Female	Birth year	2008	Age at entanglement	10

Case study ID	CCS	NMFS		GEAR ID
	WR-2018-01	E01-18		
Gear sample collected?	Yes	Gear type	Canadian	snow crab



Reproduct	No/				
Entanglement injury severity				Severe	
	Entangle	ment configuration risk		High	
Mound soverity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	High	High	High	High	Unknown
Duration of t	ime carrying gear	Minimum unknown, maximum 176 days			
	No				
	Dead				
Number of pri	or entanglements	3			

Entanglement configuration	Multiple wraps thru baleen, over rostrum, around body and flippers; carcass decomposed
Anchoring points	Mouth, flippers
Gear configuration confidence	High
Remaining questions	
Comments	Carcass retrieved; ~271 ft of line removed at necropsy

Polyr	ner type	Copolymer with lead strand in sections
Gear con	nponent	Buoy line
Rope diameter (inches)		5/8
Breaking strength (lbs)	Tested	
	New	9 000

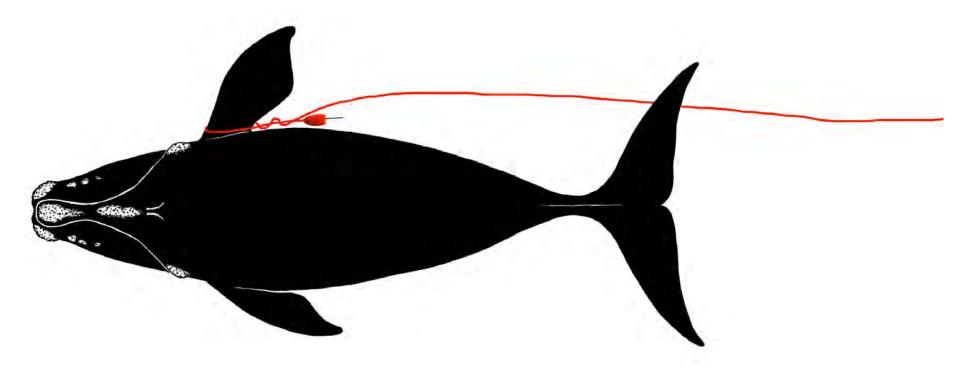


28 Jan 2018 VAQF

Species	Right Whale	Whale ID	4091
O P O 0.00			

		J		12 May 2018 (6 May 2018)				
Sex	Female	Birth year	2010	Age at entanglement	8			

Case study ID	CCS	NMFS		GEAR ID
	WR-2018-03	E04-18		
Gear sample collected?	No	Gear type	US NE unl	known



Reproduct	No/ No				
	Minor				
	Entangle	ment configi	uration risk	Low	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	None	None	Low	None	Low
Duration of t	ime carrying gear	Minimum 1 day, maximum 250 days			
	No				
	Alive, last seen in 2022				
Number of pri	or entanglements	3			

Entanglement configuration	Single line wrapped on right flipper, trailing 50 ft, bullet buoy on right side of body
Anchoring points	Flipper
Gear configuration confidence	High
Remaining questions	Gear shed
Comments	Occurred between Cape Cod Bay and Great S. Channel

Polymer type		
Gear component		Buoy line
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



Species	Right Whale	Whale ID	3312

Date first observed entangled			13 Jul 201	18	
(date seen prior without gear)		(13 Jul 2018)			
Sex Male Birth year		2003	Age at entanglement	15	

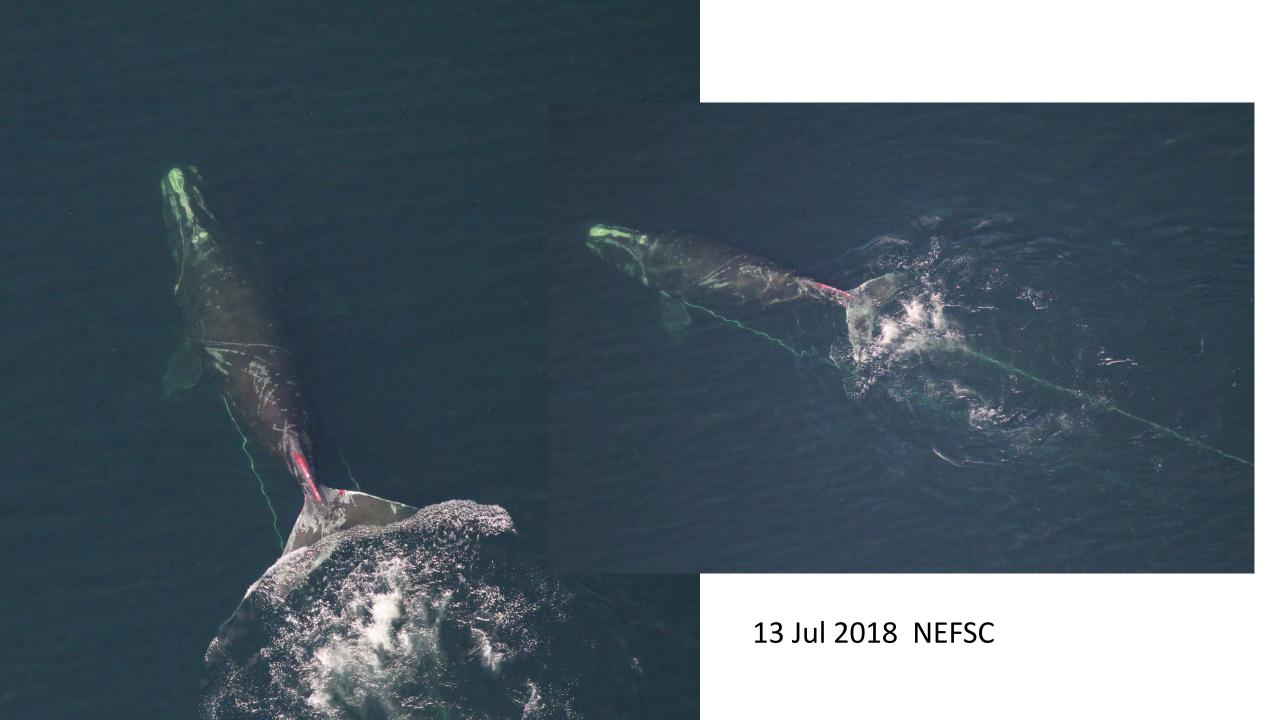
Case study ID	CCS	NMFS		GEAR ID
	WR-2018-09	E10-18		
Gear sample collected?	No	Gear type	Canadian	unknown

Drawing in progress

Reproduct	t detection				
	Entan	glement inju	ıry severity	Moderate	
	Entangle	ment configu	uration risk	High	
Mound soverity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Low	None	Low	Low	Medium
Duration of t	ime carrying gear	Minimum 1 day, maximum unknown			n
	No				
	Likely dead - no subsequent sightings			gs	
Number of pri	or entanglements	3			

Entanglement configuration	Single line through mouth and trailing several body lengths on both sides; entangled in Gulf of St Lawrence
Anchoring points	Mouth
Gear configuration confidence	High
Remaining questions	Unclear if bottom gear attached to line
Comments	Agitated, fresh blood, seen earlier in the day gear free

Polyn	ner type	
Gear con	nponent	Buoy line
Rope diameter	(inches)	
Breaking strength (lbs) Tested		
	New	



Species	Right Whale	Whale ID	3843

Date first observed entangled			30 Jul 201	-	
(date s	(date seen prior without gear)			18)	
Sex	Sex Male Birth year		2008	Age at entanglement	10

Case study ID	CCS	NMFS		GEAR ID
	WR-2018-18	E20-18		
Gear sample collected?	Yes	Gear type	Unknown	

Photographs inadequate to determine complete entanglement configuration - no drawing available

Reproduct					
	Entan	glement inju	ury severity	Severe	
	Entangle	ment configi	uration risk	High	
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Low	High	Unknown	Unknown	High
Duration of t	ime carrying gear	Minimum 153 days, maximum 205+ days			
	Yes, partial - 5 Aug 2018				
	Likely dead - last seen in Dec 2018 still entangled				
Number of pri	or entanglements	1			

Entanglement configuration	Rope thru mouth,across front rostrum; line with low drag buoy trailing ~ 1 body length; line likely weighted below whale
Anchoring points	Mouth
Gear configuration confidence	Low
Remaining questions	Unsure if rostrum wrap remains
Comments	Small amount of gear remains at left mouth; condition improving

Polyn	ner type	
Gear con	nponent	Buoy line
Rope diameter (inches)		
Breaking strength (lbs) Tested		
	New	



Species	Right Whale	Whale ID	3960

Date first observed entangled		20 Aug 2018				
(date seen prior without gear)		(6 Aug 20	18)			
Sex	Sex Male Birth year		2009	Age at entanglement	9	

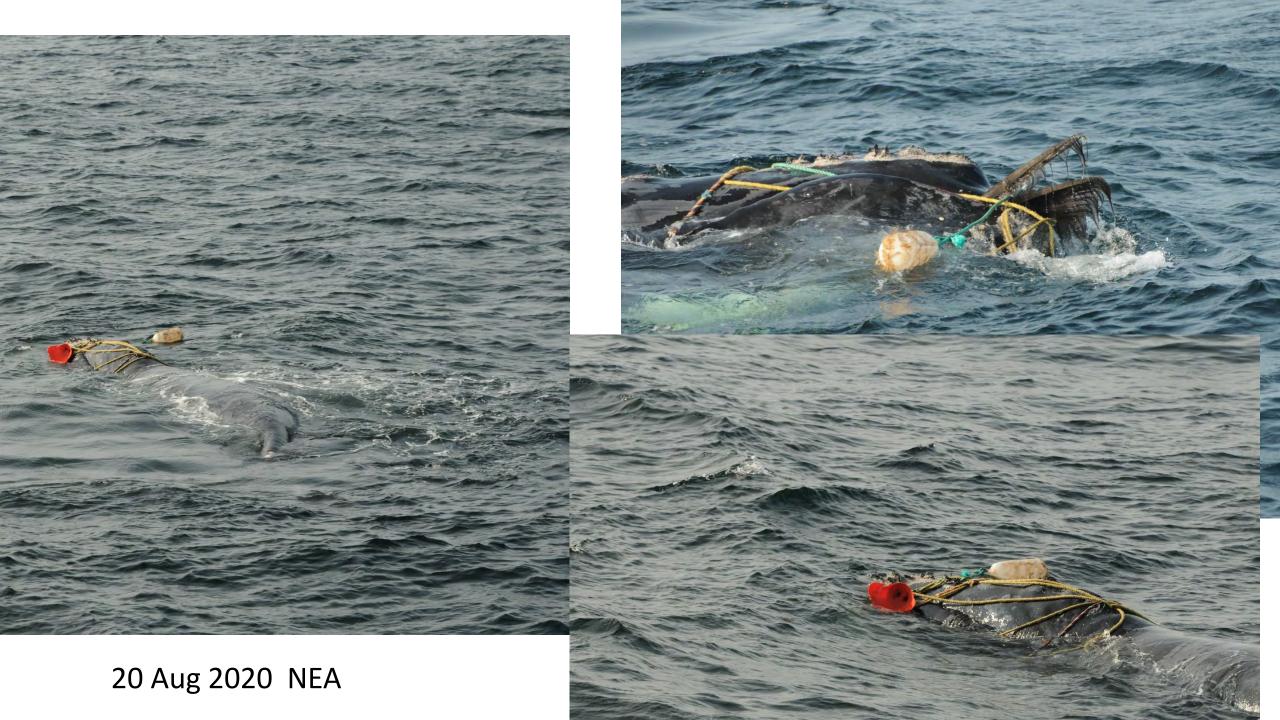
Case study ID	CCS	NMFS		GEAR ID
	WR-2018-29	E30-18		
Gear sample collected?	No	Gear type	Canadian	unknown

Photographs inadequate to determine complete entanglement configuration - no drawing available

Reproduct	t detection				
	Entan	glement inju	ury severity	Severe	
	Entangle	ment configi	uration risk	High	
Mound soverity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	High	Low	None	None	High
Duration of t	ime carrying gear	Minimum 1 day, maximum 13 days			
Disentangled?		No			
Status		Alive, last seen in 2022			
Number of pri	or entanglements	0			

Entanglement configuration	Multiple lines thru mouth, over rostrum,, around body and tail stock; fresh blood at tail
Anchoring points	Mouth,, flukes
Gear configuration confidence	Low
Remaining questions	Weight attached? Gear shed during observation
Comments	Damaged baleen; whale thrashed for 2+ hours

Polymer type		
Gear con	nponent	Buoy line and unknown (multiple ropes involved)
Rope diameter	(inches)	Larger diameter
Breaking strength (lbs)	Tested	
	New	



Species	Right Whale	Whale ID	2310

Date first observed entangled		20 Dec 2018			
(date seen prior without gear)		(12 Apr 2	018)		
Sex	Male	Birth year		Age at entanglement	25+

Case study ID	CCS	NMFS		GEAR ID
	WR-2018-51	E48-18		
Gear sample collected?	No	Gear type	Unknowr	า

Photographs inadequate to determine complete entanglement configuration - no drawing available

Reproduct	t detection				
	Entan	nglement injury severity		Severe (due to duration)	
	Entangle	ment configi	uration risk	High	
Mound coverity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unknown	None	Unknown	None	Low
Duration of t	ime carrying gear	Minimum 126 days, maximum unknown			nown
Disentangled?		No			
Status		Likely dead - last seen in 2019 still entangled			ntangled
Number of pri	or entanglements	0			

Entanglement configuration	Single line through mouth and trailing 1-2 body lengths on right side before sinking out of sight
Anchoring points	Mouth
Gear configuration confidence	High
Remaining questions	Length of trailing gear uncertain; rope shifted to bridle
Comments	Whale showing signs of decline at last sighting; long duration with gear

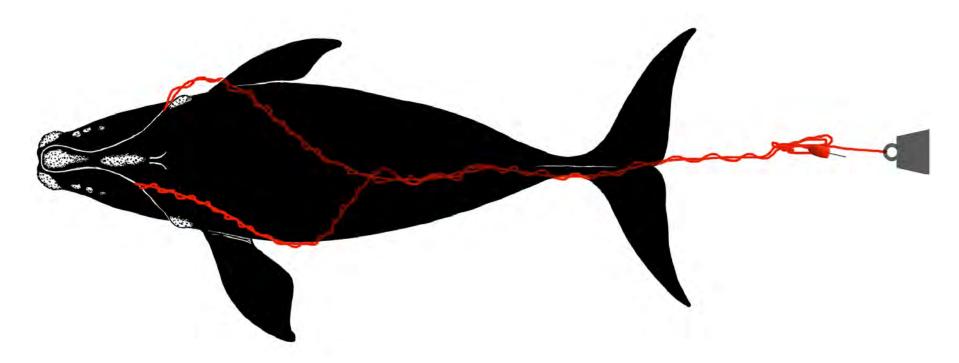
Polymer type		
Gear component		Unknown
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



Species	Right Whale	Whale ID	4423

Date first observed entangled (date seen prior without gear)		25 Apr 2019 (20 Aug 2018)				
Sex	Male	Birth year	2014	Age at entanglement	5	

Case study ID	CCS	NMFS		GEAR ID
·	WR-2019-03	E04-19		
Gear sample collected?	No	Gear type	Unknowr	1



Reproduct	t detection				
	glement inju	ıry severity	Severe		
	ment configuration risk		High		
Mound coverity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Low	Low	Medium	None	High
Duration of t	ime carrying gear	Minimum 113 days, maximum 432 days			days
Disentangled?		Yes, partial - 11 Jul 2019, gear free 28 Oct 2019			28 Oct 2019
Status		Alive, seen in 2022			
Number of pri	or entanglements	2			

Entanglement configuration	Line through mouth, forming bridle, and trailing to buoy and weighted line behind buoy
Anchoring points	Mouth
Gear configuration confidence	High
Remaining questions	
Comments	Rope wrapping around baleen plates

Polymer type		
Gear con	nponent	Line and buoy
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



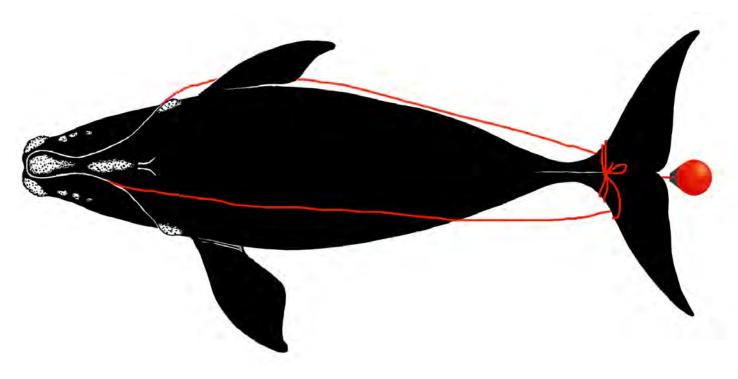
25 April 2019 NEFSC



Species Right Whale Whale ID 4440

		29 Jun 2019			
(date seen prior without gear)		(14 Apr 2019)			
Sex	Male	Birth year	2014	Age at entanglement	5

Case study ID	CCS	NMFS		GEAR ID
	WR-2019-09	E09-19		
Gear sample collected?	No	Gear type	Unknowr	1



Reproduct					
	Severe				
	ement configuration risk		High		
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Medium	Low	Unknown	Low	High
Duration of t	ime carrying gear	Minimum 20 days, maximum 120 days			ays
Disentangled?		Yes, partial - 16 Jul 2019			
Status		Alive, last seen in 2022			
Number of pri	or entanglements	1			

Entanglement configuration	Single line through mouth and wrapped tightly multiple times around tailstock with buoy under tail
Anchoring points	Mouth, tail
Gear configuration confidence	High
Remaining questions	
Comments	Whale hogtied. Gear shed by 14 Aug 2019 after line cut along body

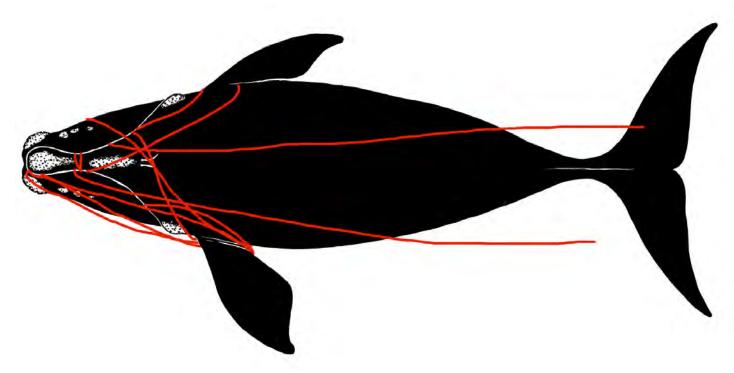
Polymer type		
Gear con	nponent	Line and buoy
Rope diameter	(inches)	
Breaking strength (lbs)	Tested	
	New	



Species	Right Whale	Whale ID	3125
00000		*******	UU

Date first observed entangled		4 Jul 2019)		
(date seen prior without gear)		(11 Apr 2	019)		
Sex	Male	Birth year	2001	Age at entanglement	18

Case study ID	CCS	NMFS		GEAR ID
	WR-2019-10	E10-19		
Gear sample collected?	Yes	Gear type	Canadian	snow crab



Reproductive prior to/after entanglement detection					
	Entan	glement inju	ury severity	Severe	
	Entangle	ment configi	uration risk	High	
NA/a um al a su carido u	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	High	High	High	Medium	High
Duration of t	ime carrying gear	Minimum 29 days, maximum 112+ days			days
Disentangled?		Yes, partial - 24/25 July and 2 Aug 2019			
Status		Likely dead - last seen 2 Aug 2019 in very poor condition			y poor condition
Number of pri	or entanglements	1			

Entanglement configuration	Line through the mouth with multiple wraps around rostrum and entire head, around both flippers, and trailing
Anchoring points	Mouth, flippers
Gear configuration confidence	High
Remaining questions	
Comments	Damaged baleen, rope embedded, orange cyamids

Polymer type		Copolymer float with portion of leaded rope
Gear component		Endline
Rope diameter	(inches)	3/4 (0.75)
Breaking strength (lbs)	Tested	
	New	11 500



Species	Right Whale	Whale ID	1226

Date first observed entangled		6 Aug 2019			
(date seen prior without gear)		(21 Jul 20	19)		
Sex	Male	Birth year	Unk	Age at entanglement	40+

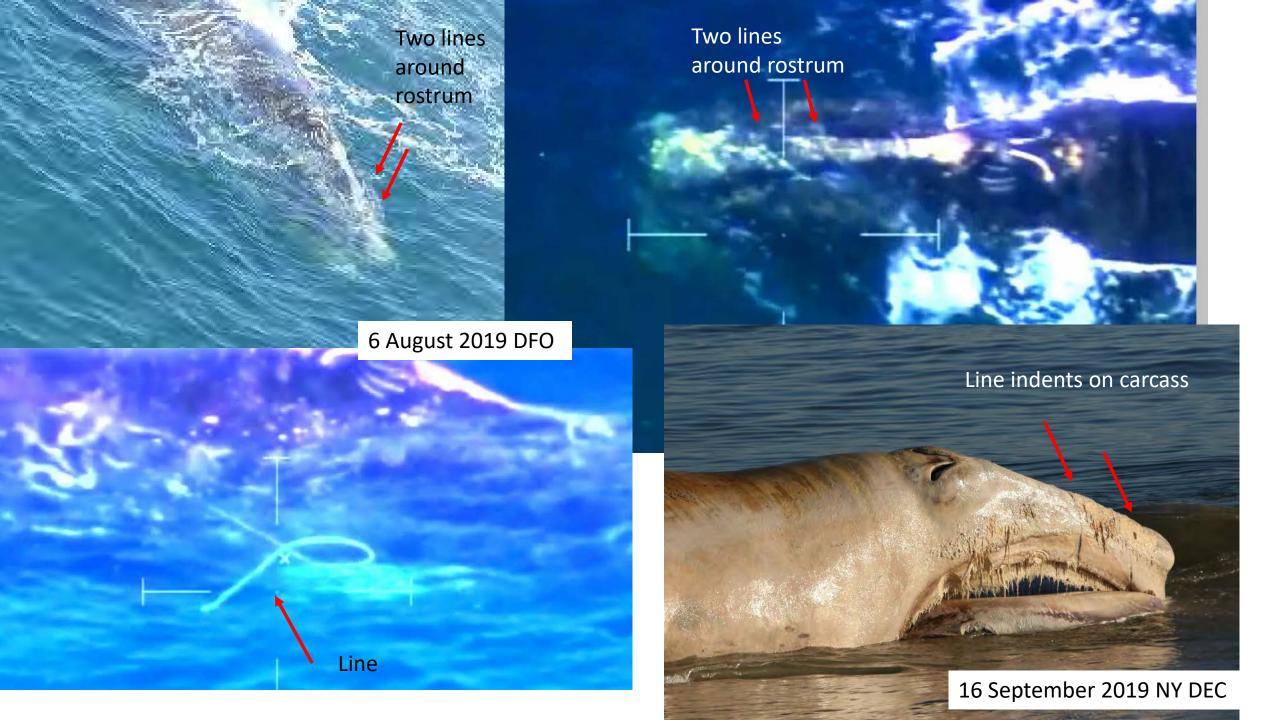
Case study ID	CCS	NMFS		GEAR ID
	WR-2019-21	E22-19		
Gear sample collected?	No	Gear type	Canadia	n, unknown

Photographs inadequate to determine complete entanglement configuration - no drawing available

Reproduct	tive prior to/after e	ntanglemen	t detection		
	Entan	nglement injury severity		Severe	
	Entangle	ment configi	uration risk	High	
Mound soverity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	High	High	High	Unknown	High
Duration of	time carrying gear	Minimum 1 day, maximum 55 days			
Disentangled?		No			
Status		Dead, 16 Sep 2019			
Number of pri	or entanglements	3			

Entanglement configuration	Two wraps around rostrum with trailing bitter end. Extensive damage at tail. May be anchored
Anchoring points	Mouth
Gear configuration confidence	Low
Remaining questions	Unsure if anchored; more rope may be involved
Comments	Found dead off Fire Island, NY. Decomposed, no gear remaining

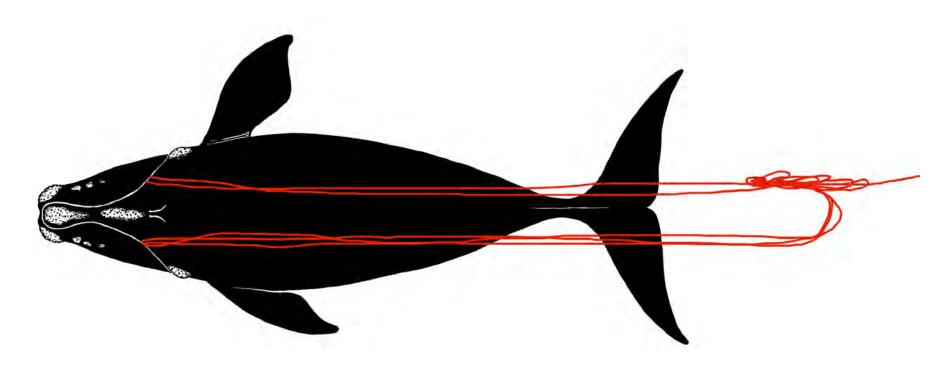
Polymer type		
Gear component		Unknown
Rope diameter (inches)		
Breaking strength (lbs) Tested		
	New	



Species Right Whale Whale ID 3466	Species	Right Whale	Whale ID	3466
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Date first observed entangled		21 Dec 2019			
(date seen prior without gear)		(29 Apr 2019)			
Sex	Male	Birth year	1994	Age at entanglement	15

Case study ID	CCS	NMF	S	GEAR ID
	WR-2019-33	E35-19		
Gear sample collected?	No	Gear type	Unknown	



Reproductive prior to/after entanglement detection					
Entanglement injury severity				Minor	
Entanglement configuration risk			High		
Marinal agreement	Mouth	Head/ rostrum	Flippers	Body	Flukes
Wound severity	Unknown	None	Unknown	None	Low
Duration of time carrying gear		Minimum 41 days, maximum 707 days			ays
Disentangled?		? No			
Status		Alive, last seen in 2022			
Number of prior entanglements		3			

Entanglement configuration	Multiple yellow lines through mouth and trailing with a jumble of rope at one bitter end
Anchoring points	Mouth
Gear configuration confidence	High
Remaining questions	None
Comments	Observed gear free in April 2021

Polymer type		
Gear component		Unknown
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	



21 December 2019 NEFSC