

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

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

No drawing available

Reproductive prior to/after entanglement detection					
Entanglement injury severity					
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Duration of time carrying gear		Minimum 1 day, maximum unknown			
Disentangled?		No			
Status		Alive at sighting			
Number of prior 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 component	
Rope diameter (inches)	
Breaking strength (lbs)	Tested
	New

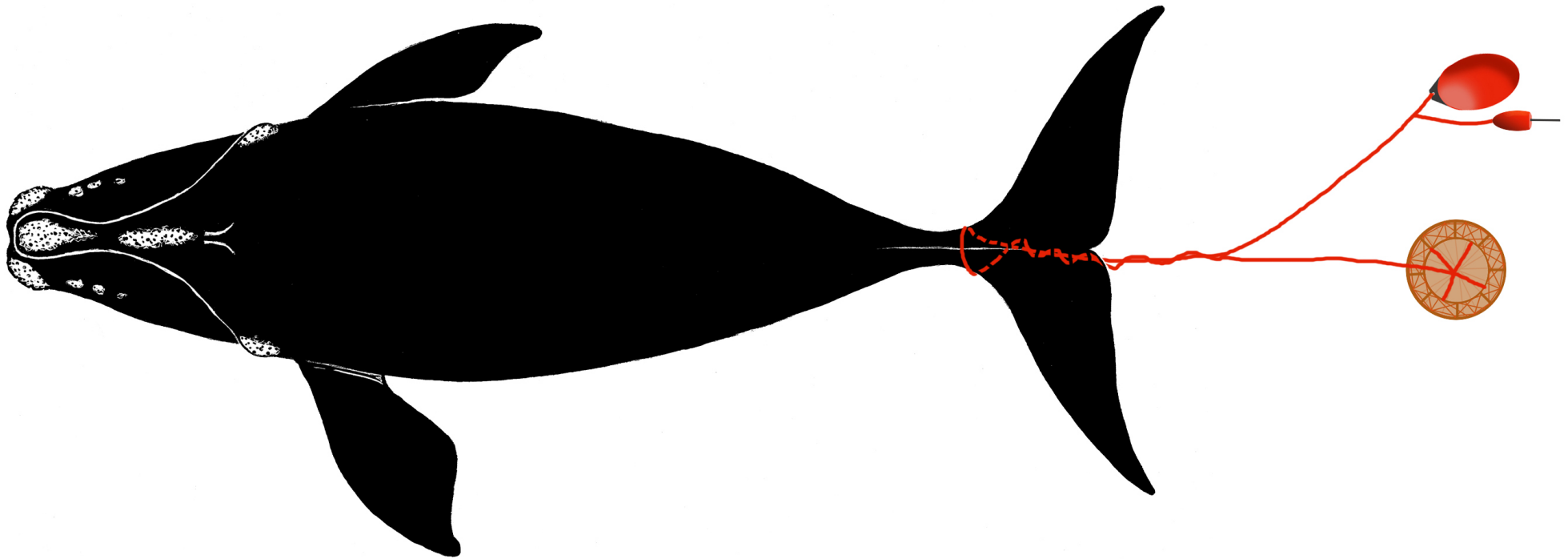
13 Jun 2015, BIWSC



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

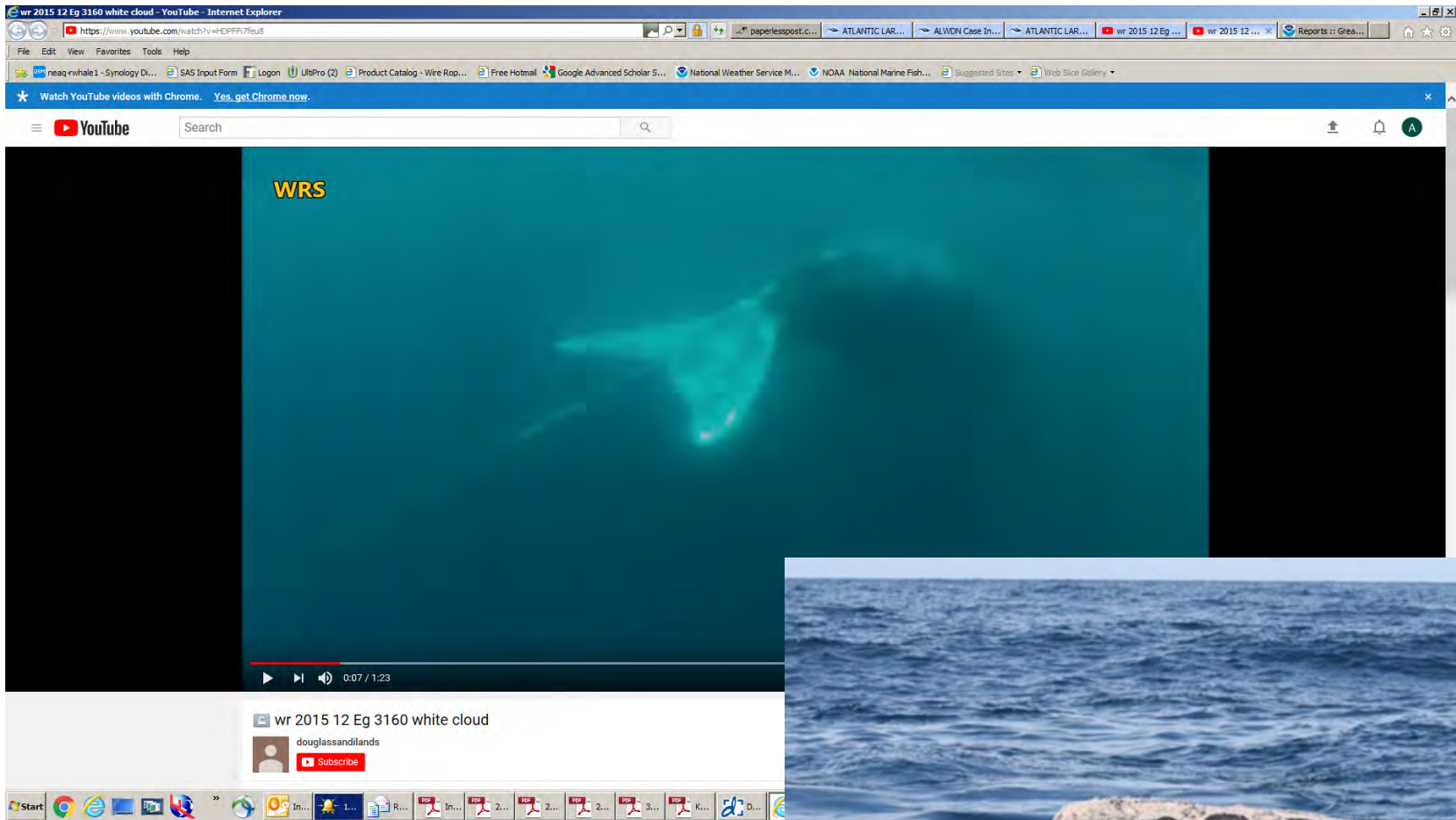
Case study ID	CCS	NMFS		GEAR ID
	WR-2015-12			
Gear sample collected?	No	Gear type	Canadian snow crab	



Reproductive prior to/after entanglement detection					
Entanglement injury severity					Severe
Entanglement configuration risk					High
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	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			
Number of prior 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



18 Jul 2015 DFO



Species	Right Whale	Whale ID	Eg # 1306
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Date first observed entangled (date seen prior without gear)		13 Sep 2015 (8 May 2015)			
Sex	Male	Birth year	Unk	Age at entanglement	32+

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

No drawing available

Reproductive prior to/after entanglement detection		Yes/Unk			
Entanglement injury severity		Severe			
Entanglement configuration risk		Low			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Low	None	Unknown	Low	High
Duration of time carrying gear		Minimum 368 days, maximum 495+ days			
Disentangled?		No			
Status		Presumed dead - Last seen in 2016 still entangled			
Number of prior 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 component	
Rope diameter (inches)	
Breaking strength (lbs)	Tested
	New



15 Sep 2016
Opportunistic sighting



23 May 2016 NEFSC

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

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

No drawing available

Reproductive prior to/after entanglement detection					
Entanglement injury severity					
Entanglement configuration risk		Unknown			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
Duration of time carrying gear		Minimum 1 day, maximum unknown			
Disentangled?		No			
Status		Alive at sighting			
Number of prior entanglements					

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

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

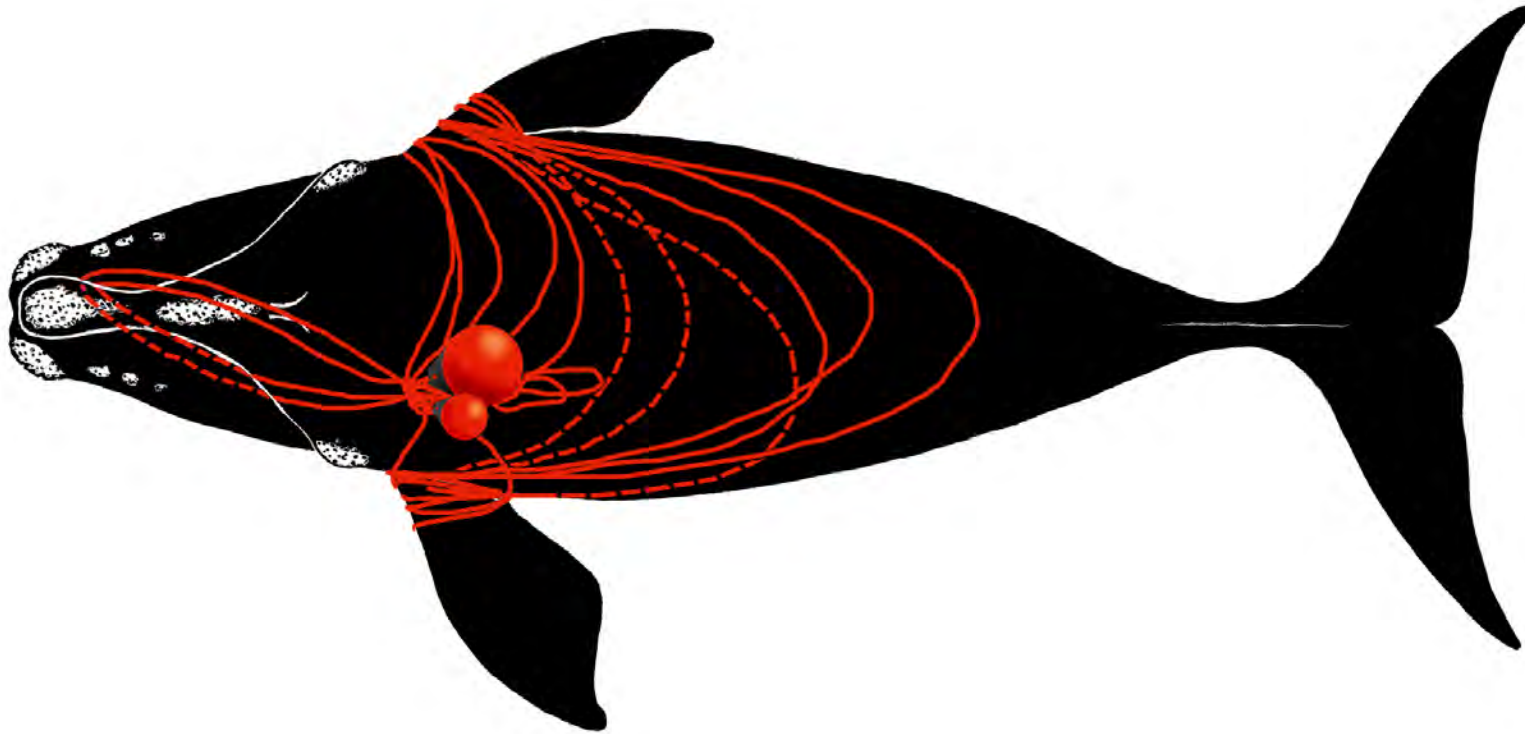


28 Sep 2015, Whale watch boat

Species	Right Whale	Whale ID	4057
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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	Canadian snow crab



Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	High	High	Unknown	Unknown	High
Duration of time carrying gear		Minimum 1 day, maximum 135+ days			
Disentangled?		Yes, partial - 13 Aug 2016			
Status		Presumed dead - no subsequent sightings			
Number of prior 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

Polymer type	Copolymer
Gear component	Buoys and endline - float and lead sink
Rope diameter (inches)	5/8 (0.625)
Breaking strength (lbs)	Tested
	New



13 Aug 2016 GMWSRS

Species	Right Whale	Whale ID	1152
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Date first observed entangled (date seen prior without gear)		16 Aug 2016 (6 Apr 2016)			
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	

No drawing available

Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe?			
Entanglement configuration risk		Low?			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Unknown	Unknown	Unknown	Unknown	Unknown
Duration of time carrying gear		Minimum 1 day, maximum 131+ days			
Disentangled?		No			
Status		Presumed dead - no subsequent sightings			
Number of prior 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



16 Aug 2016 DFO

Species	Right Whale	Whale ID	2608
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Date first observed entangled (date seen prior without gear)		28 Aug 2016 (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	

No drawing available

Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Unknown	Low	Unknown	Unknown	Unknown
Duration of time carrying gear		Minimum 27 days, maximum 367 days			
Disentangled?		No			
Status		Presumed dead - no subsequent sightings			
Number of prior entanglements		3			

Entanglement configuration	One line wrapped over rostrum with a cluster of other lines attached
Anchoring points	Mouth, flipper?
Gear configuration confidence	Low
Remaining questions	Unsure where rope is attached
Comments	On 8/1/16 had severe entanglement injuries but no rope observed

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



28 Aug 2016 BIWSC

Species	Right Whale	Whale ID	4320
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Date first observed entangled (date seen prior without gear)		1 Sep 2016 (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

No drawing available

Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Unknown	Unknown	High	Unknown	Unknown
Duration of time carrying gear		Minimum 1 day, maximum 136 days			
Disentangled?		No			
Status		Dead			
Number of prior 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 component		Buoys and end line
Rope diameter (inches)		
Breaking strength (lbs)	Tested	
	New	

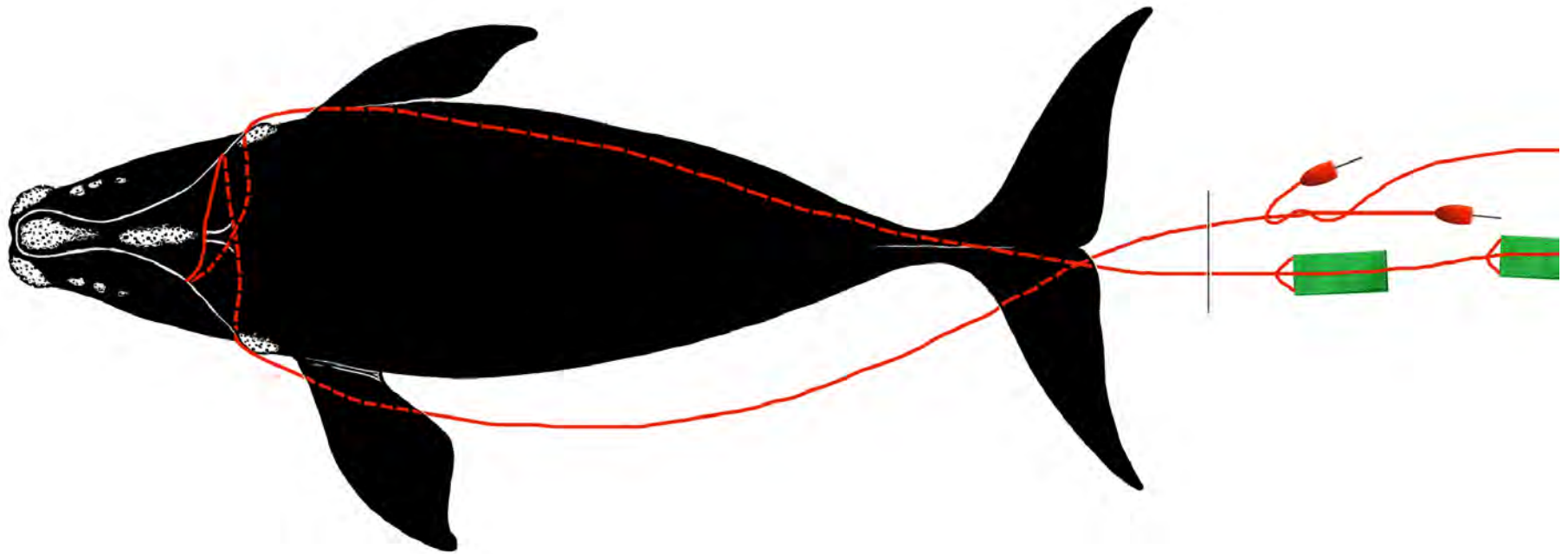


1 Sep 2016 PCAN

Species	Right Whale	Whale ID	3823
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Date first observed entangled (date seen prior without gear)	22 Sep 2016 (19 Sep 2016)				
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 trap/pot, nearshore



Reproductive prior to/after entanglement detection		No/ No			
Entanglement injury severity		Moderate			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/rostrum	Flippers	Body	Flukes
	Unknown	Low	Unknown	Unknown	Medium
Duration of time carrying gear		Minimum 1 day, maximum 4 days (based on gear set date)			
Disentangled?		Yes, partial			
Status		Alive - last seen in 2021			
Number of prior 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 component	2 buoys and 2 endlines
Rope diameter (inches)	3/8 (0.375); 7/16 (0.4375)
Breaking strength (lbs)	Tested
	New

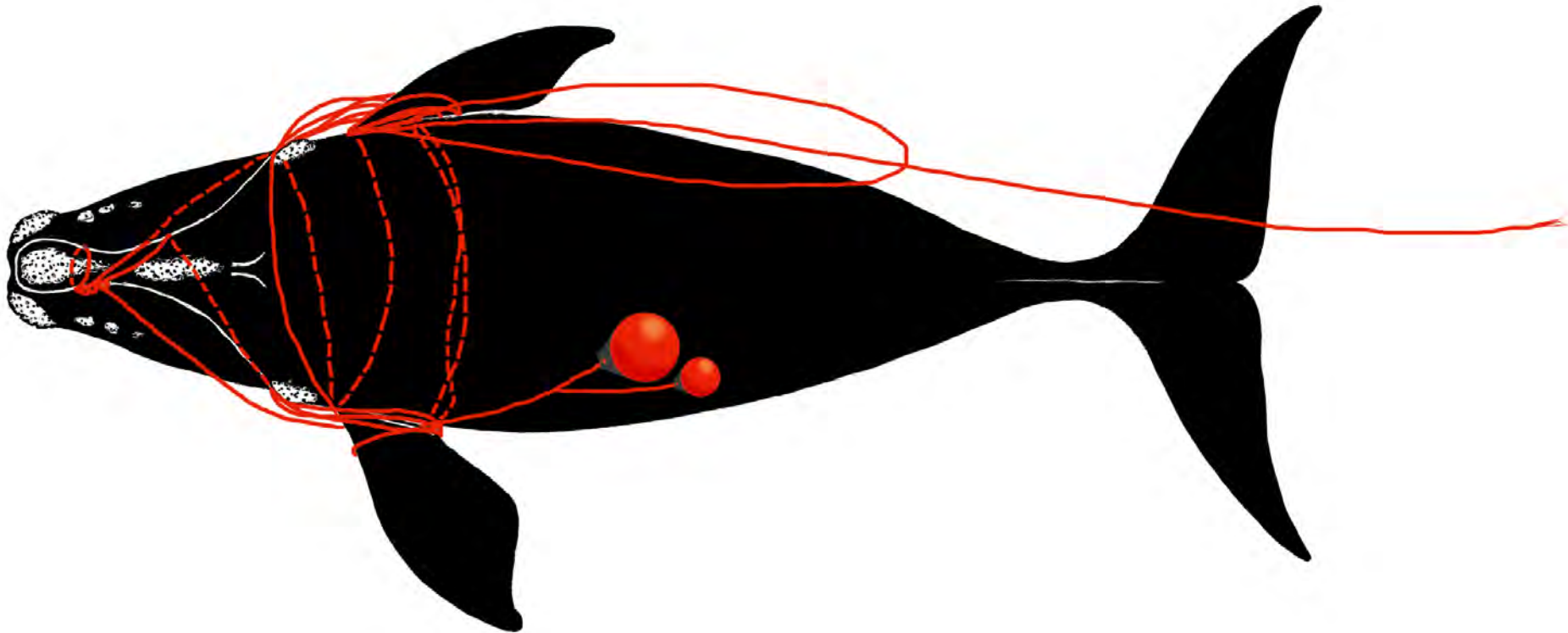


22 Sep 2016 CCS

Species	Right Whale	Whale ID	3694
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Date first observed entangled (date seen prior without gear)		23 Sep 2016 (12 Feb 2016)			
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



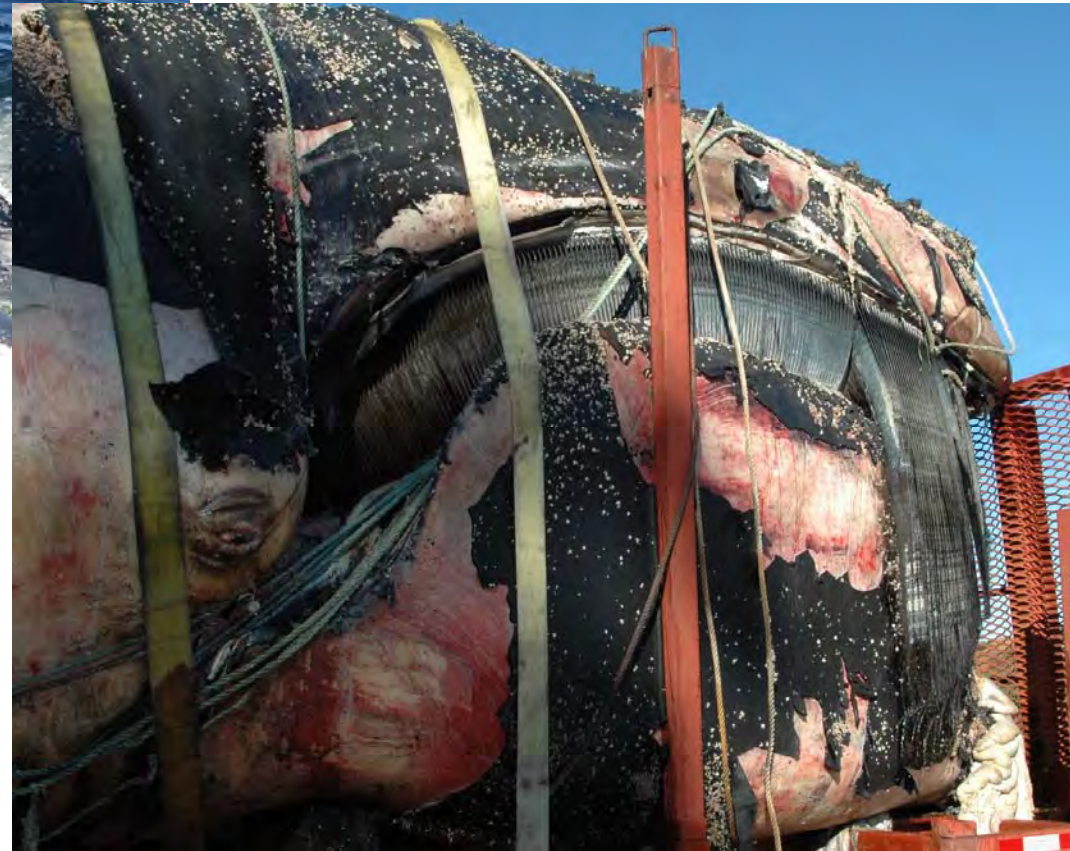
Reproductive prior to/after entanglement detection		No/ -			
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	High	High	High	Medium	High
Duration of time carrying gear		Minimum 1 day, maximum 223 days			
Disentangled?		No			
Status		Dead			
Number of prior 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 component	Buoy and end line - float and leaded sink
Rope diameter (inches)	5/8 (0.625)
Breaking strength (lbs)	Tested
	New



23 Sep 2016
MMOME



Species	Right Whale	Whale ID	3405
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Date first observed entangled (date seen prior without gear)		4 Dec 2016 (4 Sep 2016)			
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	

No drawing available

Reproductive prior to/after entanglement detection		Yes/ No			
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Low	Low	Unknown	Unknown	Unknown
Duration of time carrying gear		Minimum 1 day, maximum 90+ days			
Disentangled?		No			
Status		Presumed dead - no subsequent sightings			
Number of prior 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

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



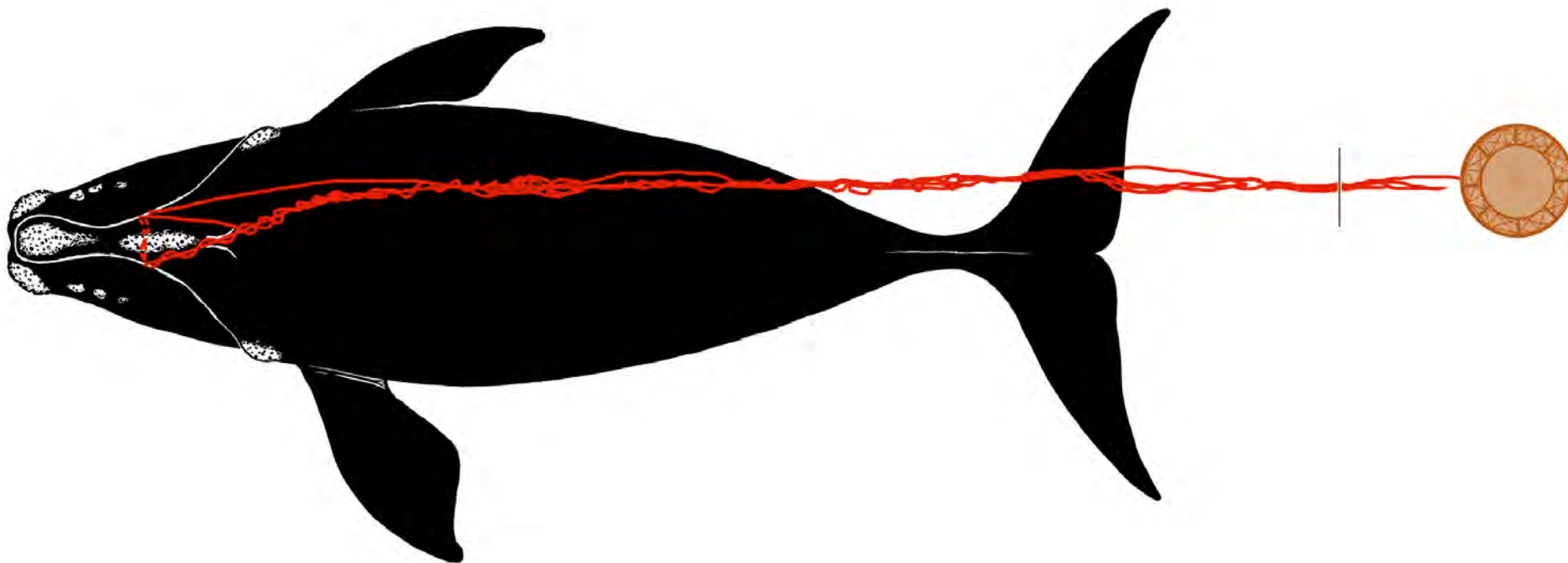
© Artie Raslich Photography

Opportunistic sighting
4 December 2016

Species	Right Whale	Whale ID	3530
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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	



Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Unknown??	Low	Unknown	Low	High
Duration of time carrying gear		Minimum unknown, maximum 143 days			
Disentangled?		Yes			
Status		Alive, last seen in 2021			
Number of prior 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

Polymer type	Rope assessment in progress
Gear component	Endline and crab pot
Rope diameter (inches)	
Breaking strength (lbs)	Tested
	New



5 Jan 2017 GDNR

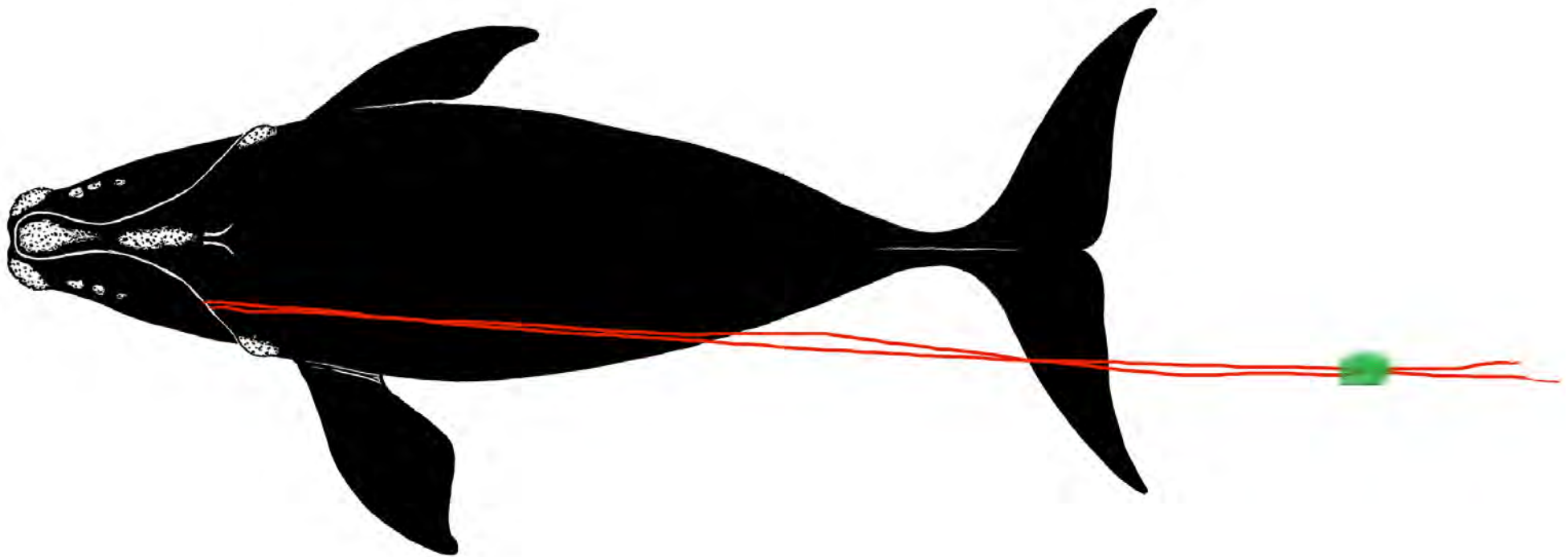


5 Jan 2017 FWRI

Species	Right Whale	Whale ID	4146
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Date first observed entangled (date seen prior without gear)	23 Apr 2017 (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 nearshore lobster



Reproductive prior to/after entanglement detection		No/ No			
Entanglement injury severity		Minor			
Entanglement configuration risk		Low			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Low	None	None	Low	Low
Duration of time carrying gear		Minimum 1 day, maximum 12 days			
Disentangled?		No			
Status		Alive, last seen in 2021			
Number of prior 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 component	
Rope diameter (inches)	
Breaking strength (lbs)	Tested
	New



23 April 2017 CCS

Species	Right Whale	Whale ID	3603
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Date first observed entangled (date seen prior without gear)		21 Jun 2017 (23 Apr 2017)			
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 crab	

No drawing available

Reproductive prior to/after entanglement detection		No/no			
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	High	Unknown	High	Unknown	Unknown
Duration of time carrying gear		Minimum 1 day, maximum 10 days			
Disentangled?		No			
Status		Dead			
Number of prior 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

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

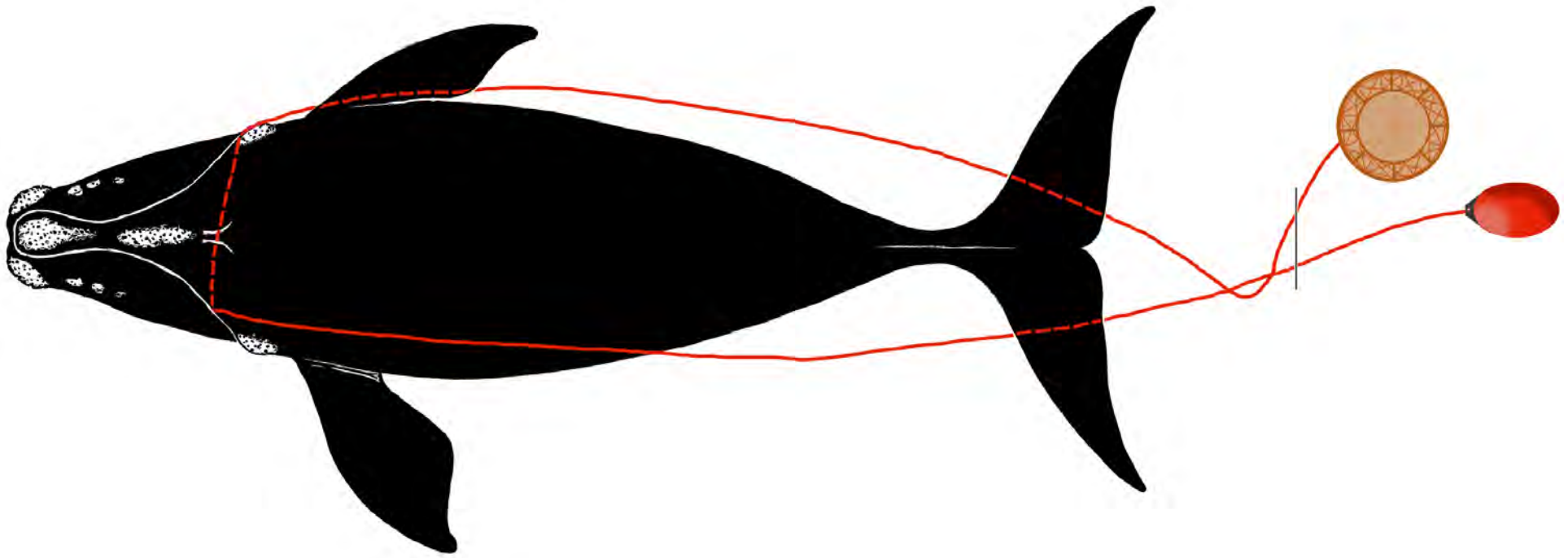


22 June 2017 NOAA/NEFSC

Species	Right Whale	Whale ID	4510
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Date first observed entangled (date seen prior without gear)	5 Jul 2017 (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	



Reproductive prior to/after entanglement detection		No/ No			
Entanglement injury severity		Moderate			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Unknown	Low	Unknown	Unknown	Medium
Duration of time carrying gear		Minimum 1 day, maximum 9 days			
Disentangled?		Yes			
Status		Alive, last seen in 2021			
Number of prior 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

Polymer type	
Gear component	End line and crab trap (per DFO)
Rope diameter (inches)	
Breaking strength (lbs)	Tested
	New



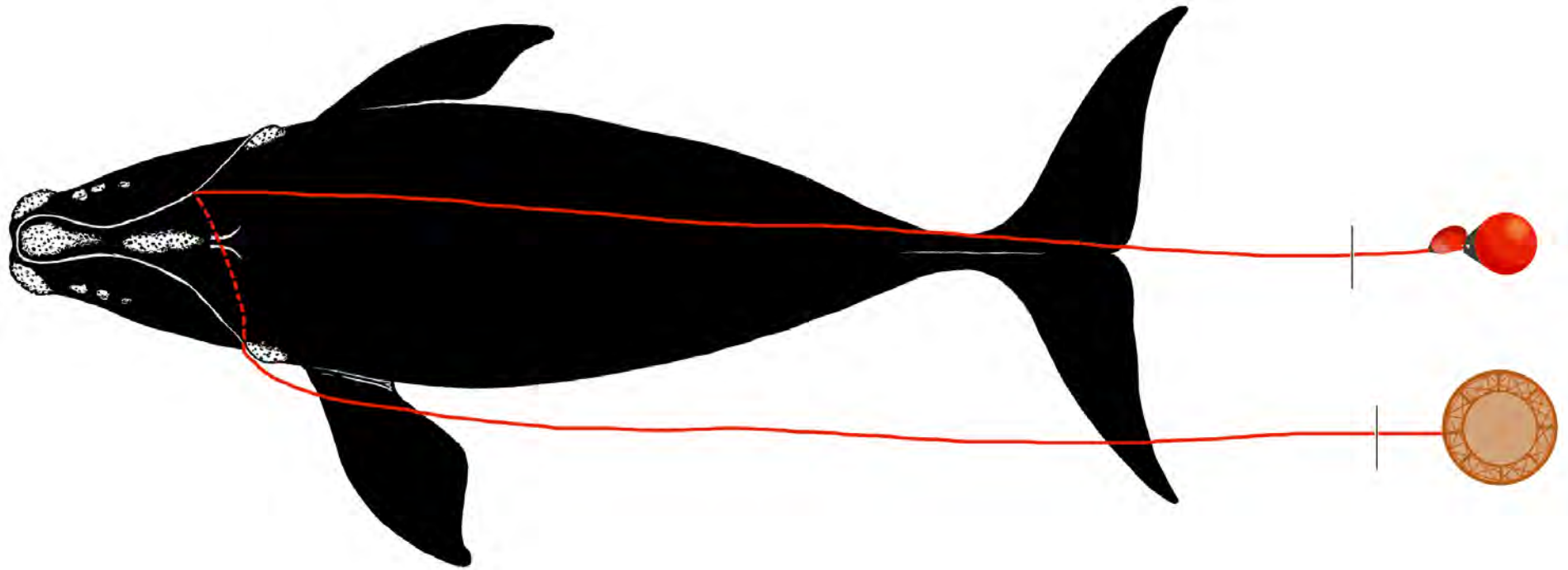
5 July 2017 NEA/CWI



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

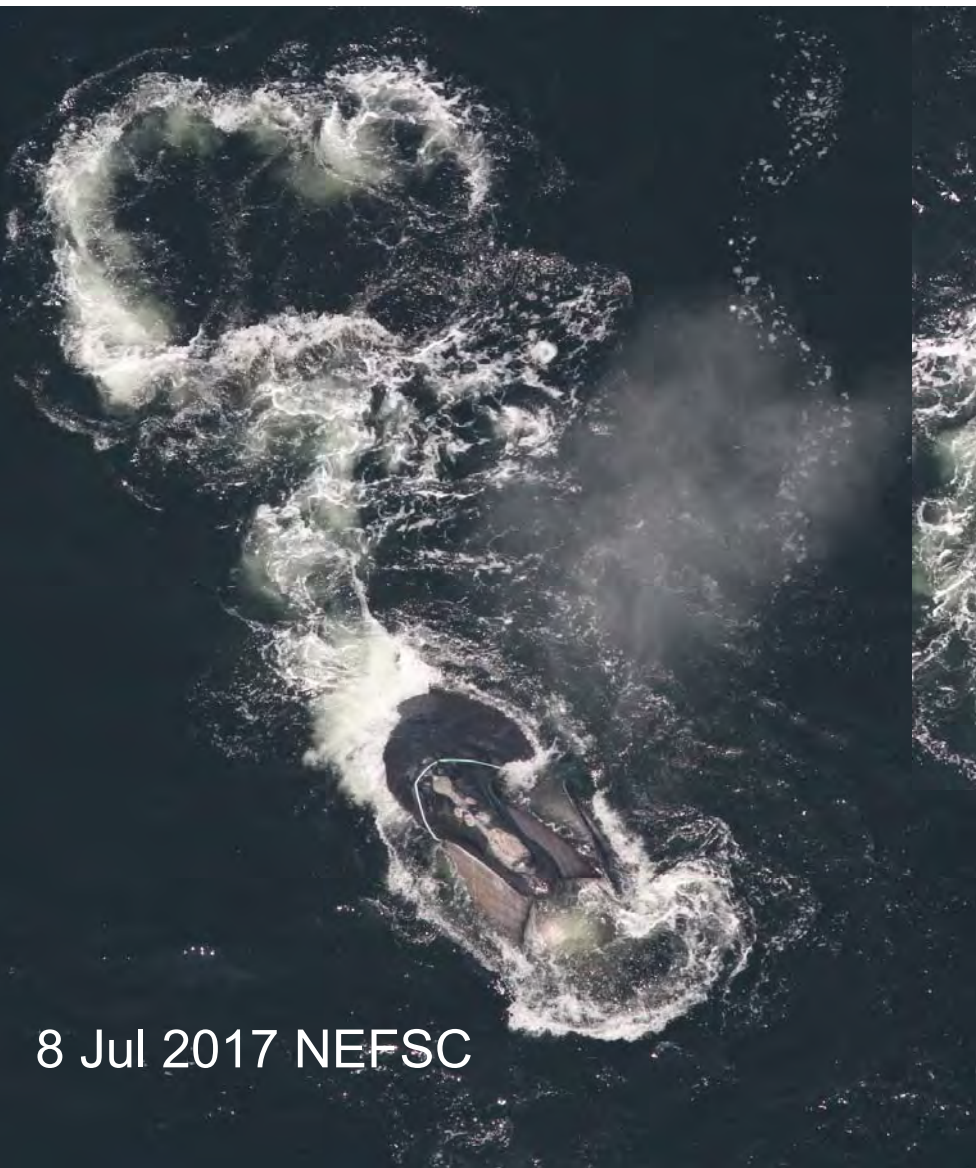
Case study ID	CCS	NMFS	GEAR ID
	WR-2017-09	E09-17	
Gear sample collected?	Yes	Gear type	Canadian snow crab



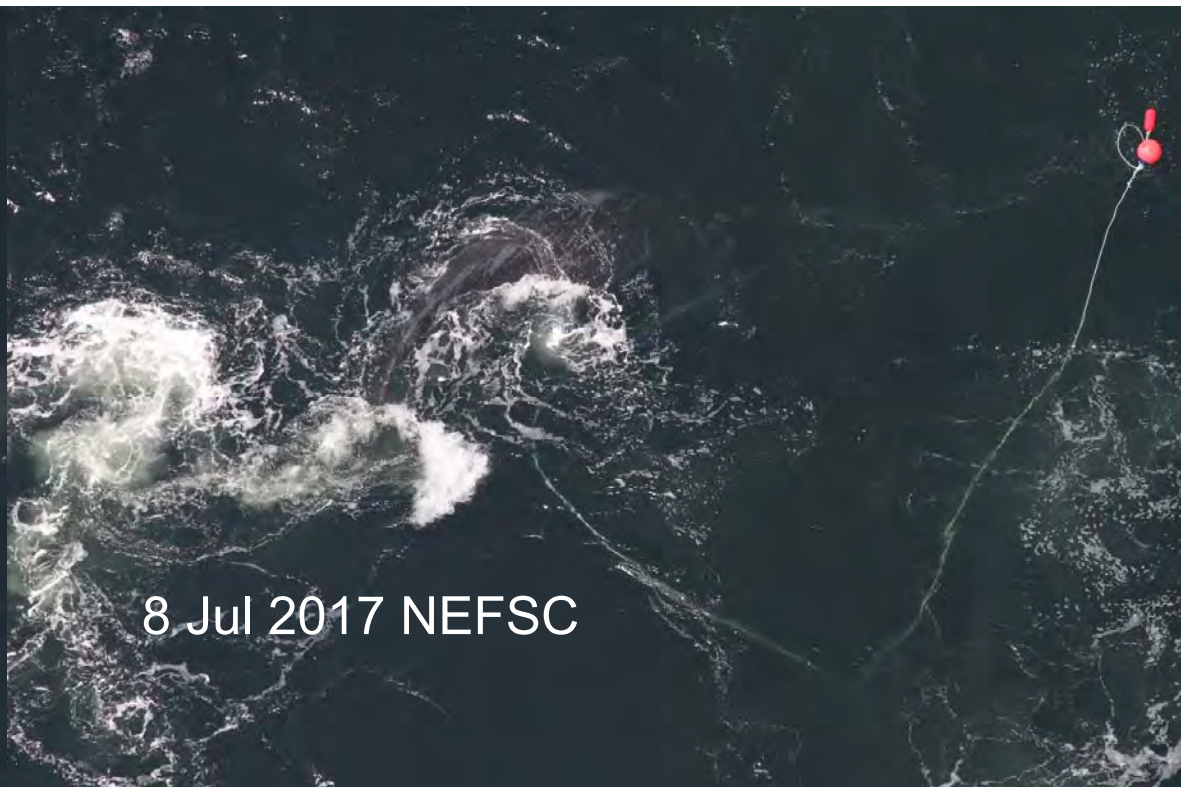
Reproductive prior to/after entanglement detection		Yes/			
Entanglement injury severity		Severe			
Entanglement configuration risk		Low			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	None	None	Unknown	None	High
Duration of time carrying gear		Minimum 1 day, maximum 91 days			
Disentangled?		No			
Status		Alive, last seen in 2021			
Number of prior 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

Polymer type	
Gear component	End line and crab pot (per DFO)
Rope diameter (inches)	
Breaking strength (lbs)	Tested
	New



8 Jul 2017 NEFSC



8 Jul 2017 NEFSC



27 Jul 2017 MICS

Species	Right Whale	Whale ID	4123
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Date first observed entangled (date seen prior without gear)		9 Jul 2017 (8 Jul 2017)			
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

No drawing available

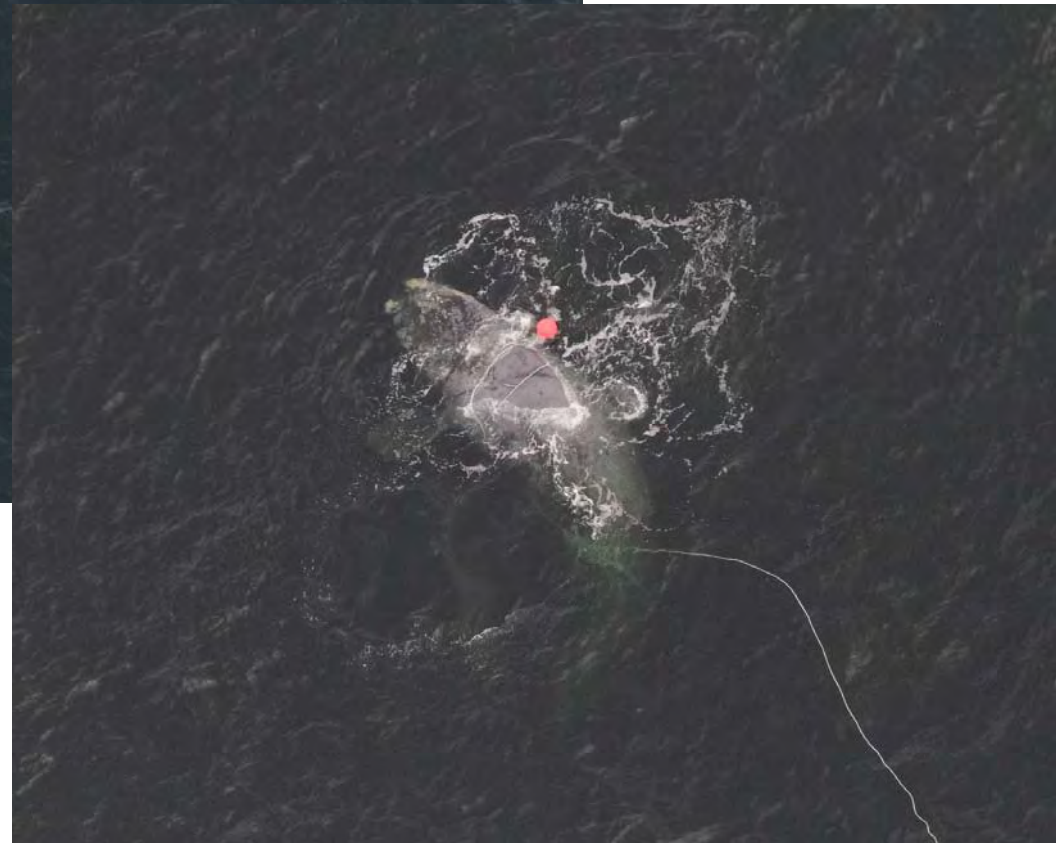
Reproductive prior to/after entanglement detection					
Entanglement injury severity		Moderate			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Unknown	None	Unknown	Low	Medium
Duration of time carrying gear		Minimum 2 days, maximum 3 days			
Disentangled?		Yes - July 10, 2017			
Status		Alive, last seen in 2018			
Number of prior 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

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



10 July 2017 NOAA/NEFSC



Species	Right Whale	Whale ID	4094
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Date first observed entangled (date seen prior without gear)		19 Jul 2017 (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

No drawing available

Reproductive prior to/after entanglement detection		Yes/No			
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Medium	Medium	Unknown	High	High
Duration of time carrying gear		Minimum 1 day, maximum 86+ days			
Disentangled?		No			
Status		Likely dead - no subsequent sightings			
Number of prior 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

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

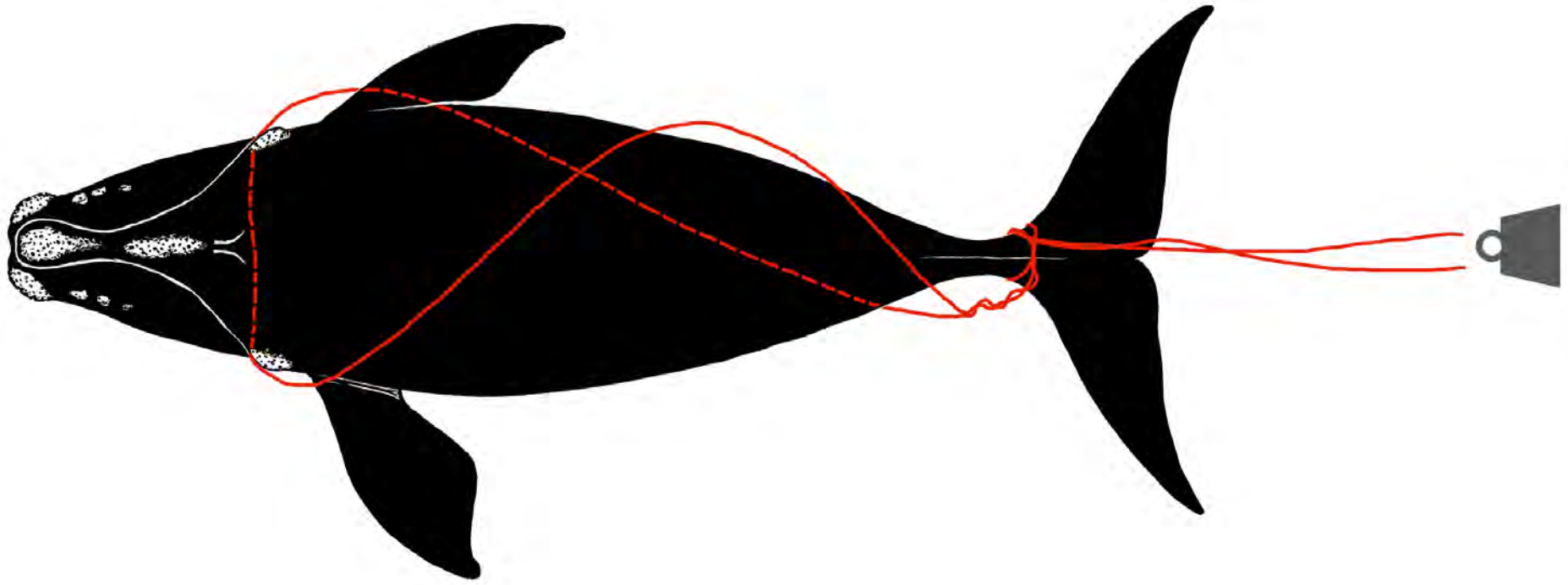


19 July 2017 NOAA/NEFSC

Species	Right Whale	Whale ID	3245
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Date first observed entangled (date seen prior without gear)		28 Aug 2017 (25 Aug 2017)			
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 - unknown



Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	None	None	Unknown	None	High
Duration of time carrying gear		Minimum 1 day, maximum 3 days			
Disentangled?		No			
Status		Alive, last seen in 2021			
Number of prior 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 component		
Rope diameter (inches)		Noted as larger diameter rope
Breaking strength (lbs)	Tested	
	New	



28 Aug 2017 TC



Species	Right Whale	Whale ID	4504
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Date first observed entangled (date seen prior without gear)		15 Sep 2017 (29 Jul 2017)			
Sex	Female	Birth year	2015	Age at entanglement	2

Case study ID	CCS	NMFS	GEAR ID
		E31-17	
Gear sample collected?	Yes	Gear type	Canadian snow crab

No drawing available

Reproductive prior to/after entanglement detection		No/ -			
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	High	High	High	Medium	Unknown
Duration of time carrying gear		Minimum 1 day, maximum 47 days			
Disentangled?		No			
Status		Dead			
Number of prior 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 component	End line and crab trap
Rope diameter (inches)	3/4 (0.7848); 7/8 (0.875)
Breaking strength (lbs)	Tested
	New



15 Sep 2017 DFO



19 Sep 2017 Unk

Species	Right Whale	Whale ID	3893
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Date first observed entangled (date seen prior without gear)		22 Jan 2018 (29 Jul 2017)			
Sex	Female	Birth year	2008	Age at entanglement	10

Case study ID	CCS	NMFS	GEAR ID
	WR-2018-01	E20-18	
Gear sample collected?	Yes	Gear type	Canadian snow crab

Drawing in progress

Reproductive prior to/after entanglement detection		No/ --			
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	High	High	High	High	Unknown
Duration of time carrying gear		Minimum unknown, maximum 176 days			
Disentangled?		No			
Status		Dead			
Number of prior 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

Polymer type	Copolymer with lead strand in sections	
Gear component	Buoy line	
Rope diameter (inches)	5/8	
Breaking strength (lbs)	Tested	
	New	9,000



26 Jan 2018 VAQF



28 Jan 2018 VAQF

Species	Right Whale	Whale ID	4091
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Date first observed entangled (date seen prior without gear)		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 unknown

Drawing in progress

Reproductive prior to/after entanglement detection		No/ No			
Entanglement injury severity		Minor			
Entanglement configuration risk		Low			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	None	None	Low	None	Low
Duration of time carrying gear		Minimum 1 day, maximum 250 days			
Disentangled?		No			
Status		Alive, last seen in 2021			
Number of prior 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

A dark, low-contrast photograph of a whale breaching the water surface. The whale's head and back are visible, with some white foam around its mouth. The background is a dark, textured surface, likely the water. The text "12 May 2018 NEFSC" is overlaid in white in the lower right quadrant.

12 May 2018 NEFSC

Species	Right Whale	Whale ID	3312
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Date first observed entangled (date seen prior without gear)		13 Jul 2018 (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

Reproductive prior to/after entanglement detection					
Entanglement injury severity		Moderate			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Low	None	Low	Low	Medium
Duration of time carrying gear		Minimum 1 day, maximum unknown			
Disentangled?		No			
Status		Alive? No subsequent sightings			
Number of prior 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

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



13 Jul 2018 NEFSC

Species	Right Whale	Whale ID	3843
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Date first observed entangled (date seen prior without gear)		30 Jul 2018 (7 Jun 2018)			
Sex	Male	Birth year	2008	Age at entanglement	10

Case study ID	CCS	NMFS	GEAR ID
	WR-2018-18	E20-18	
Gear sample collected?	No	Gear type	Unknown

Photographs inadequate to determine complete entanglement configuration - no drawing available

Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Low	High	Unknown	Unknown	High
Duration of time carrying gear		Minimum 153 days, maximum 205+ days			
Disentangled?		Yes, partial - 5 Aug 2018			
Status		Alive? Last seen in Dec 2018 still entangled			
Number of prior 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

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



30 Jul 2018 GMWSRS



30 Jul 2018 NEA



30 Jul 2018 GMWSRS

Species	Right Whale	Whale ID	3960
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Date first observed entangled (date seen prior without gear)		20 Aug 2018 (6 Aug 2018)			
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

Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	High	Low	None	None	High
Duration of time carrying gear		Minimum 1 day, maximum 13 days			
Disentangled?		No			
Status		Alive, last seen in 2021			
Number of prior 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 component	Buoy line and unknown (multiple ropes involved)
Rope diameter (inches)	Larger diameter
Breaking strength (lbs)	Tested
	New



20 Aug 2020 NEA

Species	Right Whale	Whale ID	2310
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Date first observed entangled (date seen prior without gear)		20 Dec 2018 (12 Apr 2018)			
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	Unknown

Photographs inadequate to determine complete entanglement configuration - no drawing available

Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe (due to duration)			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Unknown	None	Unknown	None	Low
Duration of time carrying gear		Minimum 126 days, maximum unknown			
Disentangled?		No			
Status		Alive, last seen in 2019 still entangled			
Number of prior 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

Trailing line



20 Dec 2018 NEA/A

Species	Right Whale	Whale ID	4423
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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	Unknown

Drawing in progress

Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Low	Low	Medium	None	High
Duration of time carrying gear		Minimum 113 days, maximum 432 days			
Disentangled?		Yes, partial - 11 Jul 2019, gear free 28 Oct 2019			
Status		Alive, seen in 2021			
Number of prior 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 component	Line and buoy
Rope diameter (inches)	
Breaking strength (lbs)	Tested
	New



25 April 2019 NEFSC



Species	Right Whale	Whale ID	4440
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Date first observed entangled (date seen prior without gear)		29 Jun 2019 (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	Unknown

Drawing in progress

Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Medium	Low	Unknown	Low	High
Duration of time carrying gear		Minimum 20 days, maximum 120 days			
Disentangled?		Yes, partial - 16 Jul 2019			
Status		Alive, last seen in 2021			
Number of prior 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 component	Line and buoy
Rope diameter (inches)	
Breaking strength (lbs)	Tested
	New



5 July 2019 N. Hawkins

5 July 2019 NEA/CWI



Species	Right Whale	Whale ID	3125
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Date first observed entangled (date seen prior without gear)		4 Jul 2019 (11 Apr 2019)			
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?

Drawing in progress

Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	High	High	High	Medium	High
Duration of time carrying gear		Minimum 29 days, maximum 112+ days			
Disentangled?		Yes, partial - 24/25 July and 2 Aug 2019			
Status		Likely dead - last seen 2 Aug 19 in very poor condition			
Number of prior 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



19 July 2019 NEFSC



2 August 2019 CCS



2 August 2019 CCS

Species	Right Whale	Whale ID	1226
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Date first observed entangled (date seen prior without gear)		6 Aug 2019 (21 Jul 2019)			
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	Canadian, unknown

Photographs inadequate to determine complete entanglement configuration - no drawing available

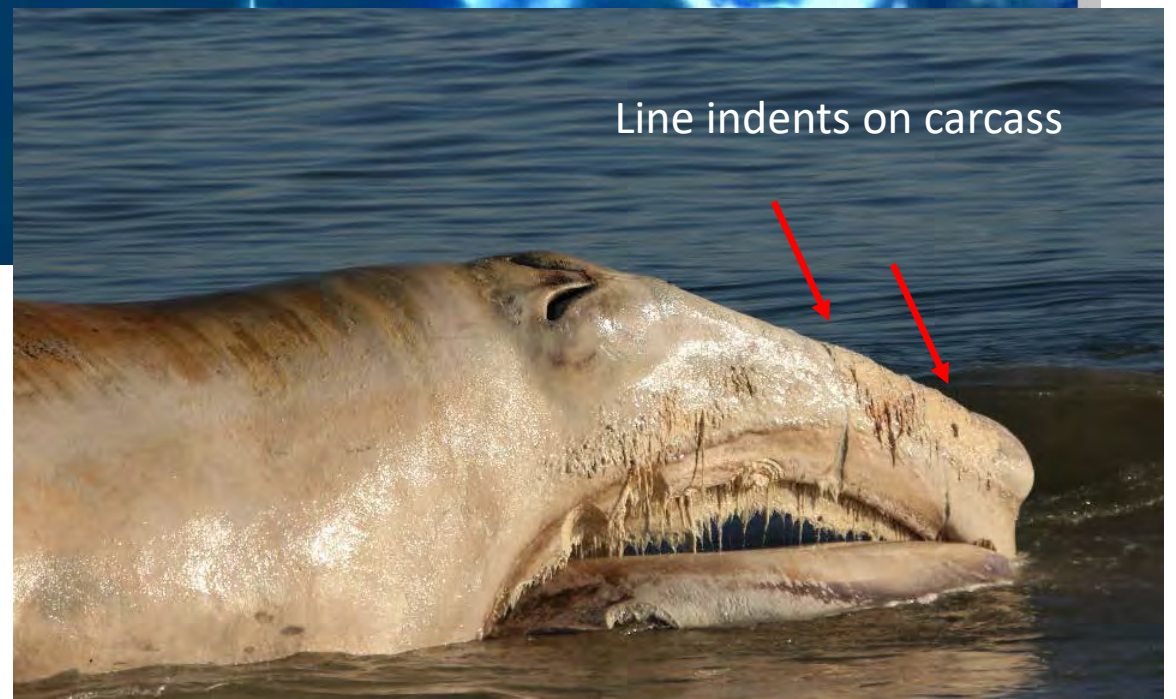
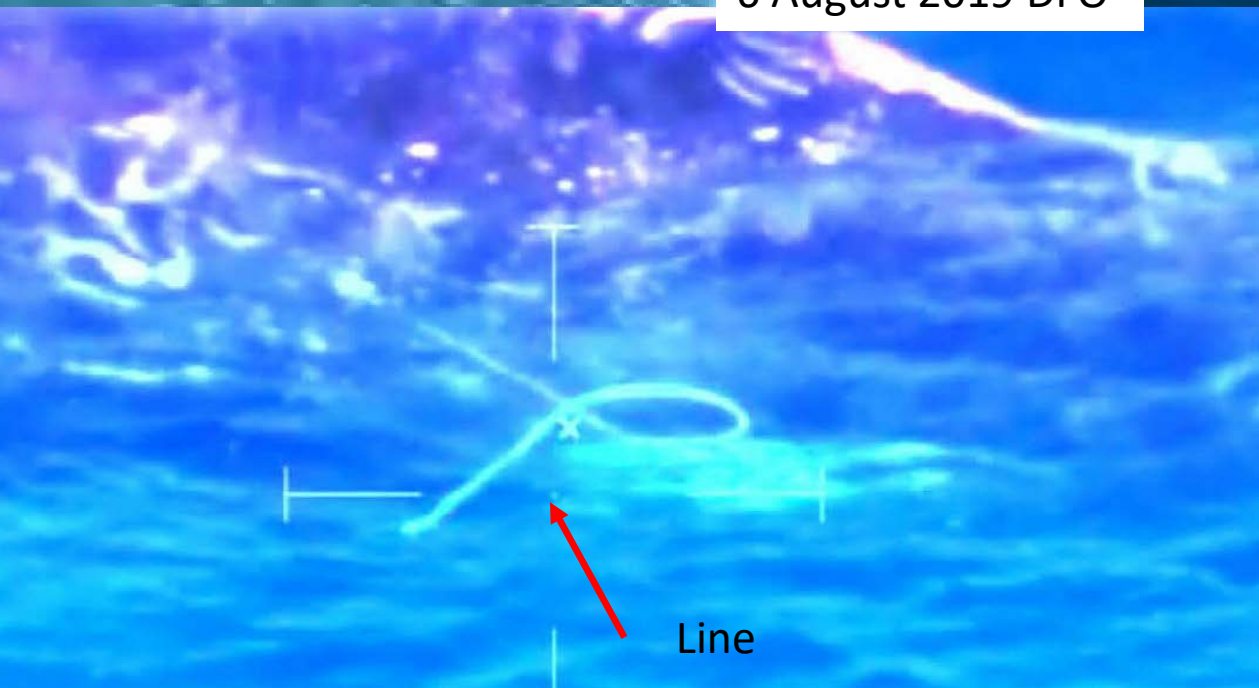
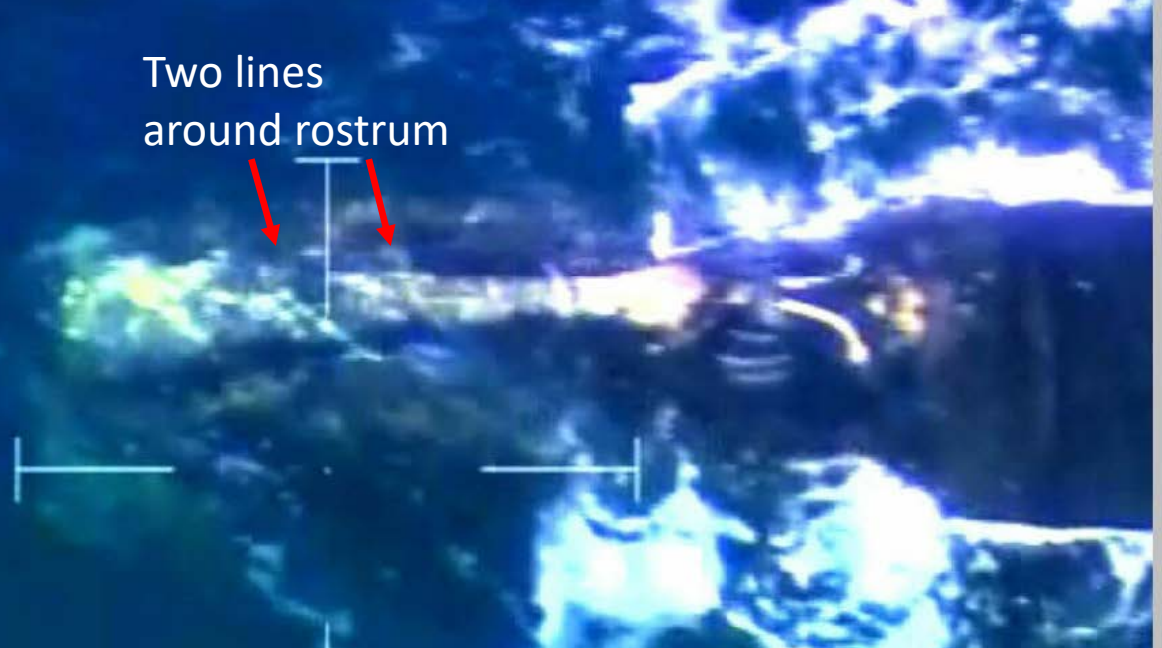
Reproductive prior to/after entanglement detection					
Entanglement injury severity		Severe			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	High	High	High	Unknown	High
Duration of time carrying gear		Minimum 1 day, maximum 55 days			
Disentangled?		No			
Status		Dead, 16 Sep 2019			
Number of prior 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



6 August 2019 DFO



16 September 2019 NY DEC

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

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

Drawing in progress

Reproductive prior to/after entanglement detection					
Entanglement injury severity		Minor			
Entanglement configuration risk		High			
Wound severity	Mouth	Head/ rostrum	Flippers	Body	Flukes
	Unknown	None	Unknown	None	Low
Duration of time carrying gear		Minimum 41 days, maximum 707 days			
Disentangled?		No			
Status		Alive, last seen in 2021			
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