

2010 Large Whale Entanglement Report

Prepared by
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2010 Large Whale Entanglement Report

Table 1. 2010 large whale entanglement reports for live entangled whales.

Indication of Entanglement* - Live Whales

	Live	Dead	TOTAL
Right Whale	3	2	5
Humpback Whale	13	3	16
Finback Whale	0	0	0
Minke Whale	3	0	3
Sei Whale	0	0	0
Unknown	1	0	1
TOTAL	20	5	25

* "Indication of Entanglement" is marked for cases where one or more of the following applies:

- Gear was reported on a whale by a reliable observer.
- Gear was photo-documented on a whale.
- Gear was retrieved from a whale.
- Gear was reported on a whale by an inexperienced observer who was interviewed by National Marine Fisheries Service (NMFS) or Provincetown Center for Coastal Studies (PCCS) staff and the account was descriptive enough to eliminate doubt about whether or not the whale was entangled.

Wounds, condition and NMFS serious injury and mortality determination

Descriptions of wounds and condition in this report were based on the preliminary information at the time of the event. Analysis of data and final classifications were undertaken separately as part of the serious injury and mortality determinations done by NMFS Northeast Fisheries Science Center (NEFSC). All entanglement and ship strike cases may obtain new information outside of the production time frame of this report which may alter any determination, status or sighting information. Please contact the appropriate organization for up to date sighting information. Whales not deemed a serious injury or mortality by NEFSC are categorized in this report as a human-induced injury. Deceased animals that have no gear documented or are witnessed with a Cause of Death determined to be entanglement will not be listed in this report but rather the NEFSC Mortality and Serious Injury report. The report "Mortality and Serious Injury Determinations for Baleen Whale Stocks along the Gulf of Mexico, United States East Coast and Atlantic Canadian Provinces, 2006-2010" is available online at <http://nefsc.noaa.gov/publications/crd/crd1211/>.

Notes:

- Entanglement case information within this report has been compiled from numerous resources including U.S. and Canadian federal governments, U.S. state agencies and partners within the Atlantic Large Whale Disentanglement Network. The reports represent all known U.S. coast-wide large whale entanglement data including animals that fall under U.S. regulations but were outside U.S. borders (ex. right whales, Gulf of Maine humpback whales), but should be considered a minimum number and not comprehensive.
- Gear analysis was conducted by NOAA staff on recovered gear or through owner interviews when applicable. All analysis is quantitative in nature and any qualitative information is outside the scope of this report.
- New England Aquarium and the Right Whale Consortium provided sighting and life history information for right whales.
- Life history and sighting information for humpback whales was provided by PCCS, with contributions from Blue Ocean Society, Brier Island Whale and Seabird Cruises and The Whale Center of New England. Please contact Jooke Robbins of PCCS for more information.
- Scott Landry of PCCS supplied the entanglement diagrams.
- Many thanks to numerous NMFS staff that offered helpful comments.

Table 2. Key for common acronyms

ALWDN	Atlantic Large Whale Disentanglement Network
COA	College of the Atlantic, ME
CWR	Campobello Whale Rescue (Canada)
DFO	Department of Fisheries and Oceans (Canada)
ECE	East Coast Ecosystems (Canada)
EWS	Early Warning System
FRC	Fast Response Craft
FWC	Florida Fish and Wildlife Conservation Commission
GA DNR	Georgia Department of Natural Resources
GMWSRS	Grand Manan Whale and Seabird Research Station (Canada)
IFAW	International Fund for Animal Welfare
MA DMF	Massachusetts Division of Marine Fisheries
MD DNR	Maryland Department of Natural Resources
ME DMR	Maine Department of Marine Resources
MEP	Massachusetts Environmental Police
MMP	Maine Marine Patrol
MERR	Marine Education Research and Rehabilitation Institute, DE
MMSC	Marine Mammal Stranding Center, NJ
NAB	National Aquarium in Baltimore, MD
NEAq	New England Aquarium Right Whale Research Team, MA
NEFSC	NMFS Protected Species Branch, Northeast Fisheries Science Center
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
PCCS	Provincetown Center for Coastal Studies, MA
RI DEM	Rhode Island Department of Environmental Management
RIEP	Rhode Island Environmental Police
SAG	Surface Active Group
SBNMS	Stellwagen Bank National Marine Sanctuary, MA
SEFSC	NMFS Protected Species Branch, Southeast Fisheries Science Center
SSA	Sea to Shore Alliance
UNC-W	University of North Carolina, Wilmington
USCG	United States Coast Guard
VAq	Virginia Aquarium
WCNE	The Whale Center of New England, MA
WHOI	Woods Hole Oceanographic Institution, MA
WW	Whale Watch

Table 3. Entanglement summary for 2010 confirmed cases.

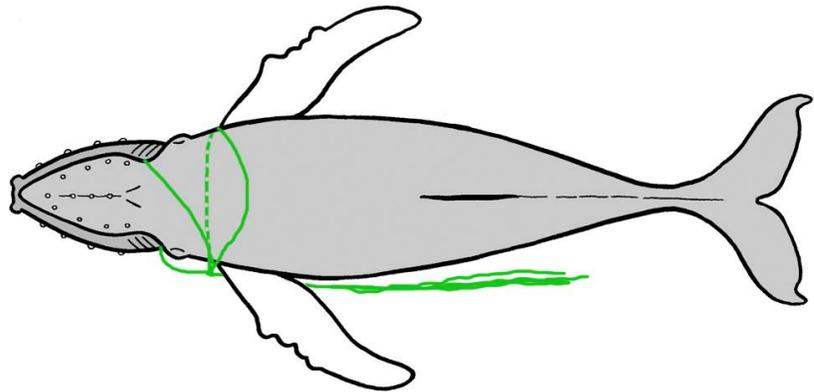
Entanglement Report Number	Species	Date of 1 st Observation	Dead/Alive	SI Determination	Gear Collected	Type of Gear	Gear part ID
E01-10	Humpback	3/07/2010	Alive	SI	No	U	N/A
E02-10	Humpback	5/05/2010	Alive	SI	No	U	N/A
E03-10	Humpback	5/08/2010	Dead	SI	Yes	Sink Gillnet	S, V, N
E04-10	Right	5/13/2010	Alive	Non-SI	Yes	U	U
E05-10	Humpback	5/18/2010	Alive	SI	No	U	N/A
E06-10	Humpback	5/28/2010	Dead	SI	Yes	U	U
E07-10	Humpback	6/19/2010	Alive	Non-SI	Yes	Lobster	S
E08-10	Right	6/27/2010	Dead	SI	No	U	N/A
E09-10	Humpback	7/05/2010	Alive	Non-SI	No	U	N/A
E10-10	Humpback	7/23/2010	Alive	Non-SI	No	U	N/A
E11-10	Humpback	7/26/2010	Alive	Non-SI	No	U	N/A
E12-10	Humpback	7/27/2010	Alive	Non-SI	No	U	N/A
E13-10	Humpback	7/27/2010	Alive	Non-SI	No	U	N/A
E14-10	Humpback	8/13/2010	Alive	SI	Yes	Lobster	V, S
E15-10	Minke	8/14/2010	Alive	Non-SI	Yes	Lobster	S, V, T
E16-10	Minke	8/19/2010	Alive	Non-SI	Yes	Lobster	S, V, G
E17-10	Humpback	8/20/2010	Alive	SI	No	U	N/A
E18-10	Minke	8/21/2010	Alive	SI	No	U	N/A
E19-10	Humpback	8/31/2010	Alive	Non-SI	Yes	Lobster	S, V
E20-10	Right	9/10/2010	Alive	SI	No	U	N/A
E21-10	Humpback	10/02/2010	Alive	Non-SI	No	U	N/A
E22-10	Right	10/20/2010	Alive	Non-SI	No	U	N/A
E23-10	Unknown	11/15/2010	Alive	Non-SI	No	U	N/A
E24-10	Humpback	11/27/2010	Dead	SI	No	U	N/A
E25-10	Right	12/25/2010	Dead	SI	Yes	Trap/pot	V, G

Table 3 notes – Dead/Alive column represents the latest known status as of the writing of this report. Abbreviations within the Vertical/Ground Line ID and Type of Gear: V = Vertical/End Line; S = Surface System; G = Ground Line; N = Gillnet/Mesh; T = Trap/Pot; U = Unknown, gear type could not be determined; N/A = Not applicable, no gear was analyzed. SI determination: SI = Serious injury or mortality was determined to be the primary cause from entanglement; Non-SI = no serious injury or mortality caused by the entanglement. Any combination of codes is possible although each code will only be listed once, regardless if different types of gear were involved. This column may not represent all portions of the true initial entanglement as gear could have been shed before the first observation. Gear portions identified may not represent the section that initially caused the entanglement.

2010 Entanglements

NMFS No.	E01-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Entangled
Date 1st Observed Entangled	3/07/2010
Species	Humpback
Individual ID	Unknown
Location 1st Observed Entangled	16.2 NM east of Ponte Vedra Beach, FL
Latitude/Longitude 1st Observed Entangled	30° 13.04'N 81° 03.53'W
Event Description	<p>3/07/2010</p> <ul style="list-style-type: none"> FWC aerial survey located and documented the whale. Whale was in poor health with a complex entanglement. A disentanglement response was initiated but the team was unable to disentangle or attach telemetry. <p>3/19/2010</p> <ul style="list-style-type: none"> Charter vessel sighted, documented and reported the animal off Saint Lucie Inlet, FL. Local disentanglement responders were unable to approach the animal close enough for any effort. <p>3/25/2010</p> <ul style="list-style-type: none"> Charter vessel sighted, documented and reported the animal off Miami, FL. No response was possible. Documentation showed the entanglement configuration had changed although it was unclear how. The animal's health appeared to be declining since the first sighting.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Line exited both sides of the mouth which led to multiple wraps around the head and body. Very little visible gear was trailing.
B. Subsequent Descriptions	The second sighting produced documentation of the whale breaching which clearly showed an anchor attached to the entangling gear. During the last sighting no body wraps were visible although the observers did state they witnessed some gear still present.

C. Diagram of Entangling Gear on Whale



Description of Wounds/Condition

A. During Initial Sighting

Tight lines across the body were abrading the skin. Overall, the animal had less than ideal skin condition and appeared thin.

B. Subsequent Descriptions

Entanglement skin abrasions were still visible. Cyamid coverage had expanded and the animal appeared to be losing more weight.

Sighting Prior to Entanglement

None

Re-sightings Post-entanglement

None

Life History Information

Unknown sex and age, although thought to be a juvenile.

NMFS Serious Injury/Mortality Determination

Human-induced serious injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E01-10		
Field No.	J 030710 hw	Date 1 st Observed	3/07/10
Location 1 st Observed	16.2 miles east of Ponte Vedra Beach, FL 30° 13.0' N 81° 3.5' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved			Gear Retrieved By		
Date Gear Received			Received From		
Sources:	USCG		Date Set		
	CCS		Date Lost		
	Fisherman		Location		
	Other		Depth		
			Bottom Type		
Gear Type:	Unknown - no gear recovered		Target Species:		
<u>Gear Description:</u> No gear recovered.					
<u>Comments:</u>					
<u>Conclusions:</u> No gear recovered.					
Report By:	John F. Kenney	Date:	2/09/12	Current Location of Gear	N.A.

NMFS No.	E02-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Entangled
Date 1st Observed Entangled	5/05/2010
Species	Humpback
Individual ID	Unknown
Location 1st Observed Entangled	1.5 NM west of Northampton, VA
Latitude/Longitude 1st Observed Entangled	37° 11.556'N 76° 02.026'W
Event Description	A fisherman reported the entanglement to local authorities but was unable to standby. The Virginia Marine Resources Commission aerial survey managed to relocate the animal and stand by until a response team from VAQ arrived. The animal proved evasive and except for a brief attachment to the entanglement the team was unable to remove the gear.
Description of Gear on Whale as Reported	
A. During Initial Sighting	A wrap of line was present around each fluke blade which led to a trailing twist of line and a small buoy.
B. Subsequent Descriptions	None
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	Line abrasions on the leading edge of the fluke and the overall skin condition appeared less than ideal.
B. Subsequent Descriptions	None
Sighting prior to entanglement	None
Re-sightings Post-entanglement	None
Life History Information	Unknown age and sex, although thought be a juvenile.
NMFS Serious Injury/Mortality Determination	Human-induced serious injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E02-10		
Field No.	J 050510 hw	Date 1 st Observed	5/05/10
Location 1 st Observed	Chesapeake Bay, Northampton, VA 37° 11.6' N, 76° 2.0' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved				Gear Retrieved By			
Date Gear Received				Received From			
Sources:	USCG			Date Set			
	CCS			Date Lost			
	Fisherman			Location			
	Other			Depth			
				Bottom Type			
Gear Type:		Unknown - no gear recovered		Target Species:			
<u>Gear Description:</u> <p style="text-align: center;">No gear recovered.</p>							
<u>Comments:</u> 							
<u>Conclusions:</u> <p style="text-align: center;">No gear recovered.</p>							
Report By:	John F. Kenney	Date:	2/09/12	Current Location of Gear	N.A.		

NMFS No.	E03-10
Initial Status	Dead
Subsequent Status (as of the date the NMFS report was completed)	Deceased
Date 1st Observed Entangled	5/08/2010
Species	Humpback
Individual ID	Unknown
Location 1st Observed Entangled	0.35 NM southwest of Point Judith, RI
Latitude/Longitude 1st Observed Entangled	41° 21.516'N 71° 29.724'W
Event Description	RI Environmental Police spotted the floating carcass from shore and responded to further assess. Upon arrival they noted the carcass was entangled in monofilament mesh and through coordination with local authorities to tow the animal to shore for a necropsy. External exam was conducted by WHOI and Mystic Aquarium the same day, with internal examination conducted the next day.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Mesh was in the mouth and partially involved the right pectoral flipper (slid off flipper during transit to shore) and body.
B. Subsequent Descriptions	None
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	Extensive recent line abrasions all over body, head and mouth.
B. Subsequent Descriptions	None
Sighting prior to entanglement	None
Re-sightings Post-entanglement	None
Life History Information	Juvenile female, 9.75m in length
NMFS Serious Injury/Mortality Determination	Human-induced mortality

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E03-10		
Field No.	J 050810 hw	Date 1 st Observed	5/08/10
Location 1 st Observed	0.35 NM southwest of Point Judith, RI 41° 21.5' N, 71° 29.7' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Carcass
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	5/08/10	Gear Retrieved By	RI DEM
Date Gear Received	8/02/10	Received From	NMFS OLE
Sources:	USCG	Date Set	
	CCS	Date Lost	Active
	Fisherman	Location	Local
	Other	Depth	
		Bottom Type	
Gear Type:	Sink gillnet	Target Species:	

Gear Description:

The gear recovered includes portions of 2 net panels and 2 buoy lines with buoys and 2 cinder block anchors. The 2 net panel portions are connected together by their bridles where a pinger is attached. Mesh size is 7" with 0.023" diameter mono on a 5/16" poly frame. The nets are tied down to 36" every fathom. Appropriate weak links are incorporated into both net panels. Buoy lines are 7/16" diameter sink rope approximately 135 feet long with a 9" x 16" foam surface buoy.

Comments:

While the whale was being towed to the beach some of the entangling gear came off the whale and was later recovered.

Conclusions:

Whale was entangled through the mouth in sink gillnet gear.

Report By:	John F. Kenney	Date:	2/09/12	Current Location of Gear	NMFS, RI
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NMFS No.	E04-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Disentangled
Date 1st Observed Entangled	5/13/2010
Species	Right
Individual ID	#2470
Location 1st Observed Entangled	49.7 NM east southeast of Chatham, MA
Latitude/Longitude 1st Observed Entangled	41° 26.99'N 68° 52.51'W
Event Description	NEFSC aerial survey located the animal and contacted PCCS to see if they were available for a response. The PCCS response team was already on the water and was roughly two hours away. Despite a complex tail entanglement, the response team managed to remove and recover all entangling gear.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Multiple wraps around the fluke with multiple lines trailing (the longest was measured to 132').
B. Subsequent Descriptions	None
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	Line abrasions from the entanglement were on the tailstock and fluke with cyamids present.
B. Subsequent Descriptions	
Sighting prior to entanglement	1/24/2010
Re-sightings Post-entanglement	5/13/2010, 2/17/2011
Life History Information	Adult male, first seen in 1994.
NMFS Serious Injury/Mortality Determination	Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E04-10		
Field No.	J 051310 rw	Date 1 st Observed	5/13/10
Location 1 st Observed	49.7 NM east southeast of Chatham, MA 41° 27.0' N, 68° 52.5' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentangled
Species	Right	Gear Recovered (y/n)	Yes
Individual ID	Eg # 2470	Gear Analysis Conducted (y/n)	Yes

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	5/13/10	Gear Retrieved By	PCCS
Date Gear Received	6/03/10	Received From	PCCS
Sources:	USCG	Date Set	
	CCS	Date Lost	
	Fisherman	Location	
	Other	Depth	
		Bottom Type	
Gear Type:	Unknown	Target Species:	
<u>Gear Description:</u> <p style="text-align: center;">Approximately 180 feet of 5/8" poly-dac float rope, white with a red tracer.</p>			
<u>Comments:</u> 			
<u>Conclusions:</u> <p style="text-align: center;">The gear recovered consists only of rope of which the gear type and part cannot be determined.</p>			
Report By:	John F. Kenney	Date:	2/09/12
		Current Location of Gear	NMFS, RI

NMFS No.	E05-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Entangled
Date 1st Observed Entangled	5/18/2010
Species	Humpback
Individual ID	Pinch
Location 1st Observed Entangled	10.7 NM northeast of Truro, MA
Latitude/Longitude 1st Observed Entangled	42° 10.63'N 69° 54.07'W
Event Description	<p>5/18/2010</p> <ul style="list-style-type: none"> PCCS response team attempted to attach a control line on the tight body entanglement but almost no trailing line prevented any success. <p>5/24/2010</p> <ul style="list-style-type: none"> Whale was re-sighted by a whale watch vessel but did not report the encounter until they were back in port. No response was undertaken due to no one standing by.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Green mesh rolled up around the head and body. A small five foot trailing section of bundled mesh was on the ventral side of the head.
B. Subsequent Descriptions	The rolled loop appeared to shift slightly off the head.
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	Minor abrasion marks from the rolled up mesh.
B. Subsequent Descriptions	None
Sighting prior to entanglement	7/25/2009
Re-sightings Post-entanglement	None
Life History Information	Yes - contact PCCS
NMFS Serious Injury/Mortality Determination	Human-induced serious injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E05-10		
Field No.	J 051810 hw	Date 1 st Observed	5/18/10
Location 1 st Observed	10.7 NM northeast of Truro, MA 42° 10.6' N, 69° 54.1' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Pinch	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved				Gear Retrieved By			
Date Gear Received				Received From			
Sources:	USCG			Date Set			
	CCS			Date Lost			
	Fisherman			Location			
	Other			Depth			
				Bottom Type			
Gear Type:		Unknown - no gear recovered		Target Species:			
<u>Gear Description:</u> <p style="text-align: center;">No gear recovered.</p>							
<u>Comments:</u> 							
<u>Conclusions:</u> <p style="text-align: center;">No gear recovered.</p>							
Report By:	John F. Kenney	Date:	2/09/12	Current Location of Gear	N.A.		

NMFS No.	E06-10
Initial Status	Dead
Subsequent Status (as of the date the NMFS report was completed)	Deceased
Date 1st Observed Entangled	5/28/10
Species	Humpback
Individual ID	Could not determine
Location 1st Observed Entangled	Just off South Beach, Martha's Vineyard, MA
Latitude/Longitude 1st Observed Entangled	41° 21.01'N 70° 35.149'W
Event Description	Advanced decomposed carcass was spotted just off of South Beach. Carcass was found the next day stranded on a nearby beach. A full necropsy was conducted the following day.
Description of Gear on Whale as Reported	
A. During Initial Sighting	A small section of twine mesh was recovered from the mouth.
B. Subsequent Descriptions	None
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	Multiple linear marks and impressions of line, including crossing marks, over the body.
B. Subsequent Descriptions	None
Sighting prior to entanglement	Unknown
Re-sightings Post-entanglement	None
Life History Information	11.2m female juvenile/young adult
NMFS Serious Injury/Mortality Determination	Human-induced mortality

FISHERY INTERACTION GEAR ANALYSIS

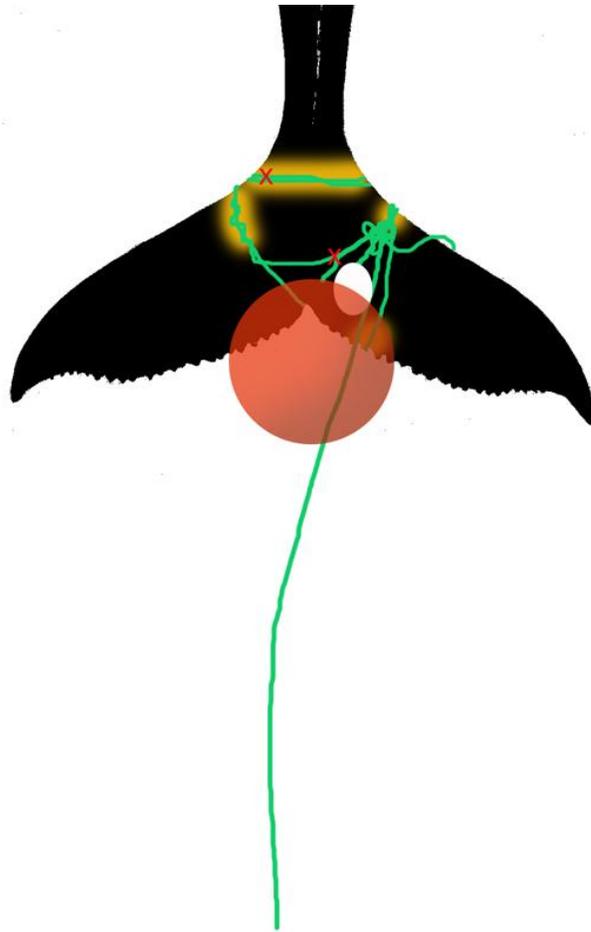
NMFS No.	E06-10		
Field No.	J 052810 hw	Date 1 st Observed	5/28/10
Location 1 st Observed	Just off South Beach, Martha's Vineyard, MA 41° 21.0' N, 70° 35.2' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Carcass
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Could not determine	Gear Analysis Conducted (y/n)	Yes

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	5/30/10	Gear Retrieved By	NEAq
Date Gear Received	7/15/10	Received From	NEAq
Sources:	USCG	Date Set	
	CCS	Date Lost	
	Fisherman	Location	
	Other	Depth	
		Bottom Type	
Gear Type:	Unknown	Target Species:	
<p><u>Gear Description:</u> A small piece of poly netting consisting of 1 complete bar and 3 partial bars. Mesh size is approximately 6" stretch. Material is green poly with a gold tracer with a cross section of approximately 0.182" x 0.151".</p>			
<p><u>Comments:</u></p>			
<p><u>Conclusions:</u> Six inch poly netting.</p>			
Report By:	John F. Kenney	Date:	2/09/12
		Current Location of Gear	NMFS, RI

NMFS No.	E07-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Entangled
Date 1st Observed Entangled	6/19/10
Species	Humpback
Individual ID	Unknown
Location 1st Observed Entangled	3.5 NM east of Orleans, MA
Latitude/Longitude 1st Observed Entangled	41° 46.33'N 69° 51.28'W
Event Description	Recreational boaters contacted USCG who relayed the report to the PCCS response team. The whale was briefly lost by the boaters while PCCS was in-transit, but was relocated with assistance from the Chatham harbormaster. The complex entanglement was partially disentangled to allow the animal to shed the embedded lines naturally (the current practice is to not forcefully remove embedded lines due to additional injury).
Description of Gear on Whale as Reported	
A. During Initial Sighting	Multiple embedded lines on the leading edge of the flukes and the tailstock. A large polyball and small white acorn buoy were trailing dorsally of the entanglement with a relatively short piece of line trailing beyond the flukes.
B. Subsequent Descriptions	None noted

C. Diagram of Entangling Gear on Whale



Description of Wounds/Condition

A. During Initial Sighting

Embedded line trauma on the fluke and tailstock.

B. Subsequent Descriptions

None

Sighting prior to entanglement

Unknown

Re-sightings Post-entanglement

None

Life History Information

Juvenile or young adult of unknown sex.

NMFS Serious Injury/Mortality Determination

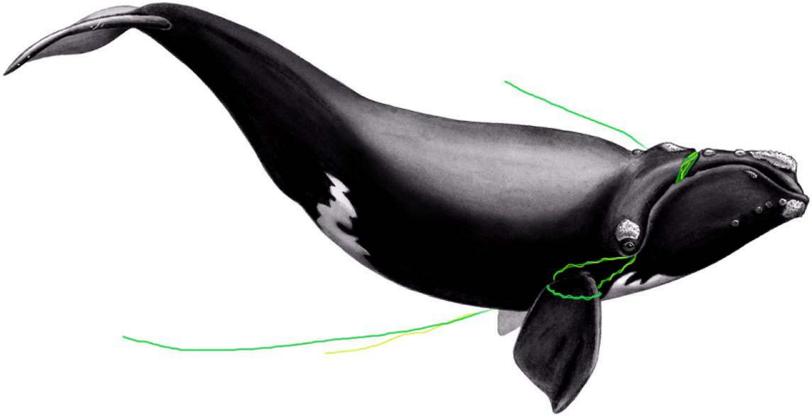
Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E07-10		
Field No.	J 061910 hw	Date 1 st Observed	6/19/10
Location 1 st Observed	3.5 NM east of Orleans, MA 41° 46.3' N, 69° 51.3' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Partial Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	6/19/10	Gear Retrieved By	PCCS
Date Gear Received	6/24/10	Received From	PCCS
Sources:	USCG		Date Set
	CCS		Date Lost
	Fisherman	Owner Interview	Location
	Other		Depth
		Bottom Type	
Gear Type:	Lobster Pot, Federal Waters	Target Species:	Lobster
<p><u>Gear Description:</u> A poly ball approximately the size of an A-3. The rope was cut within 6" of the eye.</p>			
<p><u>Comments:</u></p>			
<p><u>Conclusions:</u> The gear recovered is part of the surface system of lobster gear that was fished in federal waters.</p>			
Report By:	John F. Kenney	Date:	2/10/12
		Current Location of Gear	N.A.

NMFS No.	E08-10
Initial Status	Dead
Subsequent Status (as of the date the NMFS report was completed)	Deceased
Date 1st Observed Entangled	6/27/2010
Species	Right
Individual ID	Unknown
Location 1st Observed Entangled	37.6 NM east of Cape May, NJ
Latitude/Longitude 1st Observed Entangled	38° 54.1'N 74° 06.0'W
Event Description	USCG vessel reported an entangled carcass that was heavily infested with cyamids two days after their initial sighting. The carcass was relocated on June 30 th with USCG, PCCS and WHOI assistance and towed to shore by the USCG for a full necropsy. Sometime during the towing transit the entangling gear was lost off the animal. The carcass landed on July 1 st and the necropsy was conducted on July 2 nd .
Description of Gear on Whale as Reported	
A. During Initial Sighting	Lines were visible on the right pectoral flipper and a loose loop of line over the body.
B. Subsequent Descriptions	6/30/2010 <ul style="list-style-type: none"> • Aerial relocation survey documented line wrapped around the rostrum.
C. Diagram of Entangling Gear on Whale	
Description of Wounds/Condition	Carcass heavily infested with cyamids with a moderate state of

A. During Initial Sighting	decomposition.
B. Subsequent Descriptions	Necropsy report by WHOI documented various entanglement wounds.
Sighting prior to entanglement	Unknown
Re-sightings Post-entanglement	None
Life History Information	13.7m young adult male
NMFS Serious Injury/Mortality Determination	Human-induced mortality

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E08-10		
Field No.	J 072710 rw	Date 1 st Observed	7/27/10
Location 1 st Observed	37.6 NM east of Cape May, NJ 38° 54.1' N, 74° 6.0' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Carcass
Species	Right	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		Gear Retrieved By	
Date Gear Received		Received From	
Sources:	USCG	Date Set	
	CCS	Date Lost	
	Fisherman	Location	
	Other	Depth	
		Bottom Type	
Gear Type:	Unknown - no gear recovered	Target Species:	
<u>Gear Description:</u> No gear recovered.			
<u>Comments:</u>			
<u>Conclusions:</u> No gear recovered.			
Report By:	John F. Kenney	Date:	2/15/12
		Current Location of Gear	N.A.

NMFS No.	E09-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Gear shed
Date 1st Observed Entangled	7/05/2010
Species	Humpback
Individual ID	Swallowtail
Location 1st Observed Entangled	2.1 NM east of Orleans, MA
Latitude/Longitude 1st Observed Entangled	41° 46.0'N 69° 53.0'W
Event Description	<p>7/05/2010</p> <ul style="list-style-type: none"> A recreational boater reported the entanglement of a mother from a mother/calf pair to PCCS who responded while the boater stood by. Once on-scene the PCCS response team attempted to establish a control line but the animal proved evasive and no gear was removed. <p>7/20/2010</p> <ul style="list-style-type: none"> Whale watch vessel documented the whale possibly gear free although the head and mouth areas were not seen. <p>8/02/2010</p> <ul style="list-style-type: none"> PCCS relocated the animal and confirmed the whale was gear free.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Red/green bullet buoy trailing a short distance behind the flukes.
B. Subsequent Descriptions	A line was documented exiting the left side of the mouth which led to a wrap around the tailstock. Near the tailstock wrap was a twist of line which led to the buoy and a presumed line that led to the right side of the mouth.
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	Entanglement trauma visible on the tailstock in the photographs.
B. Subsequent Descriptions	None

Sighting prior to entanglement	Yes – consult PCCS
Re-sightings Post-entanglement	8/02/2010
Life History Information	Adult female
NMFS Serious Injury/Mortality Determination	Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E09-10		
Field No.	J 070510 hw	Date 1 st Observed	7/05/10
Location 1 st Observed	2.1 NM east of Orleans, Cape Cod, MA 41° 46.0' N, 69° 53.0' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Swallowtail	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		Gear Retrieved By	
Date Gear Received		Received From	
Sources:	USCG	Date Set	
	CCS	Date Lost	
	Fisherman	Location	
	Other	Depth	
		Bottom Type	
Gear Type:	Unknown - no gear recovered	Target Species:	
<u>Gear Description:</u> No gear recovered.			
<u>Comments:</u>			
<u>Conclusions:</u> No gear recovered.			
Report By:	John F. Kenney	Date:	2/15/12
		Current Location of Gear	N.A.

NMFS No.	E10-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Gear shed
Date 1st Observed Entangled	7/23/2010
Species	Humpback
Individual ID	Vault
Location 1st Observed Entangled	7.7 NM east of Eastham, MA
Latitude/Longitude 1st Observed Entangled	41° 50.39'N 69° 46.19'W
Event Description	<p>7/23/2010</p> <ul style="list-style-type: none"> A recreational boater documented and reported the entangled whale. Mechanical difficulties prevented a response by the PCCS team. <p>7/30/2010</p> <ul style="list-style-type: none"> A whale watch vessel documented and reported the entanglement late in the day. Lack of daylight prevented a response. The entanglement appeared the same as the previous sighting. <p>8/07/2010</p> <ul style="list-style-type: none"> A whale watch vessel briefly sighted the entangled animal and was quickly lost in a large aggregation of other whales. Poor sea conditions and no re-sighting prevented a response. <p>10/19/2010</p> <ul style="list-style-type: none"> Animal was sighted and documented gear free. Entanglement trauma was still visible and relatively fresh. Overall, the animal was described as appearing "thin and had poor skin condition".
Description of Gear on Whale as Reported	
A. During Initial Sighting	Highflyer with dual white bullet buoys and radar reflector trailing about 75 feet beyond the flukes. Attachment point was unknown.
B. Subsequent Descriptions	<p>7/30/2010</p> <ul style="list-style-type: none"> Highflyer showed signs of wear. Wrap of right fluke blade was visible and the attachment point was thought to be the mouth or flippers.
C. Diagram of Entangling Gear on Whale	None

Description of Wounds/Condition	
A. During Initial Sighting	None noted
B. Subsequent Descriptions	Recent entanglement trauma was visible on the fluke during the last sighting. Animal was described as "thin and had poor skin condition".
Sighting prior to entanglement	7/20/2010
Re-sightings Post-entanglement	10/19/2010
Life History Information	Yes - contact PCCS
NMFS Serious Injury/Mortality Determination	Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E10-10		
Field No.	J 072310 hw	Date 1 st Observed	7/23/10
Location 1 st Observed	7.7 NM east of Eastham, Cape Cod, MA 41° 50.4' N, 69° 46.2 W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Vault	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved				Gear Retrieved By			
Date Gear Received				Received From			
Sources:	USCG			Date Set			
	CCS			Date Lost			
	Fisherman			Location			
	Other			Depth			
				Bottom Type			
Gear Type:		Unknown - no gear recovered		Target Species:			
<u>Gear Description:</u> <p style="text-align: center;">No gear recovered.</p>							
<u>Comments:</u> 							
<u>Conclusions:</u> <p style="text-align: center;">No gear recovered.</p>							
Report By:	John F. Kenney	Date:	2/15/12	Current Location of Gear	N.A.		

NMFS No.	E11-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Entangled
Date 1st Observed Entangled	7/26/2010
Species	Humpback
Individual ID	Could not determine
Location 1st Observed Entangled	12.8 NM east of Chatham, MA
Latitude/Longitude 1st Observed Entangled	41° 38.66'N 69° 39.81'W
Event Description	A charter vessel reported the animal swimming with a red bullet buoy behind the flukes that would submerge when the animal dove. The animal was lost after two sightings. No response was undertaken due to poor sea conditions and no one standing by.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Red bullet buoy trailing approximately 50 feet beyond the flukes.
B. Subsequent Descriptions	None
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	None noted
B. Subsequent Descriptions	None
Sighting prior to entanglement	Unknown
Re-sightings Post-entanglement	None
Life History Information	Unknown
NMFS Serious Injury/Mortality Determination	Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E11-10		
Field No.	J 072610 hw	Date 1 st Observed	7/26/10
Location 1 st Observed	12.8 NM east of Chatham, Cape Cod, MA 41° 38.7' N, 69° 39.8' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved				Gear Retrieved By			
Date Gear Received				Received From			
Sources:	USCG			Date Set			
	CCS			Date Lost			
	Fisherman			Location			
	Other			Depth			
				Bottom Type			
Gear Type:		Unknown - no gear recovered		Target Species:			
<u>Gear Description:</u> <p style="text-align: center;">No gear recovered.</p>							
<u>Comments:</u> 							
<u>Conclusions:</u> <p style="text-align: center;">No gear recovered.</p>							
Report By:	John F. Kenney	Date:	2/15/12	Current Location of Gear	N.A.		

NMFS No.	E12-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Gear shed
Date 1st Observed Entangled	7/27/2010
Species	Humpback
Individual ID	Sodapop
Location 1st Observed Entangled	16.8 NM north northwest of Race Point, Provincetown, MA
Latitude/Longitude 1st Observed Entangled	42° 20.08'N 70° 20.91'W
Event Description	<p>7/27/2010</p> <ul style="list-style-type: none"> Local whale watch vessel documented and reported the entanglement; however the local response team was already responding to another report in a different location. <p>9/10/2010</p> <ul style="list-style-type: none"> Researchers from GMWSRS in the Bay of Fundy located and documented the entanglement late in the day. No response was undertaken due to time of day and distance from shore. <p>5/02/2011</p> <ul style="list-style-type: none"> A PCCS research vessel and was able to document the animal as gear free.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Line visible over the tail stock leading to an unknown attachment point. Two red bullet buoys on a purple stick were trailing at least two whale body lengths behind the flukes.
B. Subsequent Descriptions	<p>9/10/2010</p> <ul style="list-style-type: none"> Multiple lines visible over various parts of the body. Lines would sometimes entangle the fluke as the animal struggled. No buoys were visible.
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	None noted
B. Subsequent Descriptions	None
Sighting prior to entanglement	4/06/2010

Re-sightings Post-entanglement	5/02/2011
Life History Information	Yes – consult PCCS
NMFS Serious Injury/Mortality Determination	Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E12-10		
Field No.	J 072710 hw - 2	Date 1 st Observed	7/27/10
Location 1 st Observed	16.8 NM NNW of Race Point, Cape Cod, MA 42° 20.1' N, 70° 20.9' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Sodapop	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved				Gear Retrieved By			
Date Gear Received				Received From			
Sources:	USCG			Date Set			
	CCS			Date Lost			
	Fisherman			Location			
	Other			Depth			
				Bottom Type			
Gear Type:		Unknown - no gear recovered		Target Species:			
<u>Gear Description:</u> <p style="text-align: center;">No gear recovered.</p>							
<u>Comments:</u> 							
<u>Conclusions:</u> <p style="text-align: center;">No gear recovered.</p>							
Report By:	John F. Kenney	Date:	2/15/12	Current Location of Gear	N.A.		

NMFS No.	E13-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Gear free
Date 1st Observed Entangled	7/27/2010
Species	Humpback
Individual ID	Bearclaw
Location 1st Observed Entangled	6.5 NM northeast of Chatham, MA
Latitude/Longitude 1st Observed Entangled	41° 45.19'N 69° 50.63'W
Event Description	<p>7/27/2010</p> <ul style="list-style-type: none"> PCCS research vessel located the animal and documented the entanglement. Although the attachment point was unclear, the absence of a complete body wrap led the team to conclude it was a minor entanglement that required further monitoring. <p>8/11/2010</p> <ul style="list-style-type: none"> PCCS response team relocated the animal and documented a complete wrap on the body. Given the change in status to a life-threatening entanglement, the team used a specifically designed cutting dart, which nicked the line, to remove the gear (the whale was too evasive and the entanglement had no trailing gear for traditional methods). It was thought that the natural motion of the whale coupled with the weakened line, would allow the animal to shed the gear on its own. <p>8/31/2010</p> <ul style="list-style-type: none"> Whale was sighted in a completely new entanglement with no gear present from this interaction. New interaction is E19-10.
Description of Gear on Whale as Reported	
A. During Initial Sighting	A thin dark line over the back with an unknown attachment point.
B. Subsequent Descriptions	Loop of line over the body, with one of the anchoring points being in the mouth on the left side.
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	None noted

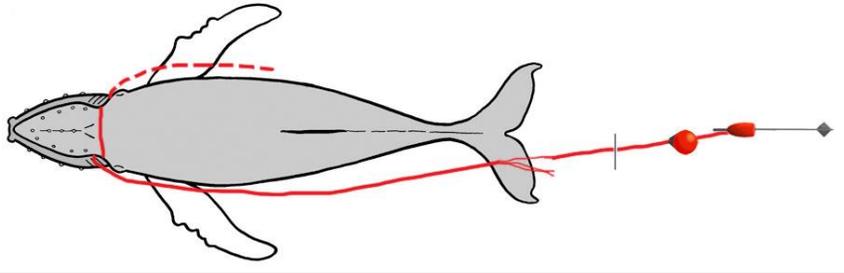
B. Subsequent Descriptions	Minor disentanglement cutting dart trauma
Sighting prior to entanglement	6/09/2010
Re-sightings Post-entanglement	8/31/2010 – new entanglement was observed
Life History Information	Juvenile – contact PCCS
NMFS Serious Injury/Mortality Determination	Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E13-10		
Field No.	J 072710 hw -1	Date 1 st Observed	7/27/10
Location 1 st Observed	6.5 NM NE of Chatham, Cape Cod, MA 41° 45.2' N, 69° 50.6' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Bearclaw, 2007 Calf of Nocturne	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		Gear Retrieved By	
Date Gear Received		Received From	
Sources:	USCG	Date Set	
	CCS	Date Lost	
	Fisherman	Location	
	Other	Depth	
		Bottom Type	
Gear Type:	Unknown - no gear recovered	Target Species:	
<u>Gear Description:</u> No gear recovered.			
<u>Comments:</u>			
<u>Conclusions:</u> No gear recovered.			
Report By:	John F. Kenney	Date:	2/15/12
		Current Location of Gear	N.A.

NMFS No.	E14-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Entangled
Date 1st Observed Entangled	8/13/2010
Species	Humpback
Individual ID	Unknown
Location 1st Observed Entangled	2.7 NM east of Orleans, MA
Latitude/Longitude 1st Observed Entangled	41° 47.97'N 69° 52.62'W
Event Description	Recreational boater reported the entanglement and PCCS responded late in the day. Upon arrival the team noticed a significant amount of line trailing with a surface system near at the end. The team managed to remove most of the trailing gear but weak line near the flukes wouldn't allow for traditional additional drag disentanglement methods. Thus, a long pole cutter was used to attempt a cut on the line across the head, but the animal proved evasive and was quickly lost. The team searched for the whale in the area but was unable to relocate it.
Description of Gear on Whale as Reported	
A. During Initial Sighting	
B. Subsequent Descriptions	None
C. Diagram of Entangling Gear on Whale	
Description of Wounds/Condition	
A. During Initial Sighting	None noted
B. Subsequent Descriptions	None
Sighting prior to entanglement	
Re-sightings Post-entanglement	None

Life History Information	Unknown
NMFS Serious Injury/Mortality Determination	Human-induced serious injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E14-10		
Field No.	J 081310 hw	Date 1 st Observed	8/13/10
Location 1 st Observed	2.7 NM east of Orleans, Cape Cod, MA 41° 48.0' N, 69° 52.6' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Partial Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	8/13/10	Gear Retrieved By	PCCS
Date Gear Received	11/02/10	Received From	PCCS
Sources:	USCG		Date Set
	CCS		Date Lost
	Fisherman	Owner Interview	Location
	Other		Depth
		Bottom Type	
Gear Type:	Lobster pot	Target Species:	Lobster
<p><u>Gear Description:</u> Recovered gear consists of a high flyer and tide ball attached with weak links. A 3/8" dia. of sinking buoy line approximately 43 feet long is attached to the tide ball. An additional 42 foot length of 3/8" dia. float rope was also recovered.</p>			
<p><u>Comments:</u> Based on information gathered during an interview with the owner, the gear was configured as a 15 trap trawl with approximately 25 fathoms of 3/8" sink rope between traps. End lines are also 3/8" with the upper 2/3 being sink rope and the bottom 1/3 float rope. The gear had been set approximately 2 weeks prior to the sighting. This fisherman fished both state and federal waters.</p>			
<p><u>Conclusions:</u> Whale was entangled in the endline of lobster pot gear.</p>			
Report By:	John F. Kenney	Date:	2/16/12
		Current Location of Gear	NMFS, RI

NMFS No.	E15-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Gear free
Date 1st Observed Entangled	8/14/2010
Species	Minke
Individual ID	Unknown
Location 1st Observed Entangled	2.6 NM east southeast of Schoodic Island, ME
Latitude/Longitude 1st Observed Entangled	44° 18.33'N 67° 58.65'W
Event Description	Whale watch vessel located and reported the anchored entangled whale. MMP responded and were able to relocate the animal and completely disentangle it.
Description of Gear on Whale as Reported	
A. During Initial Sighting	No additional information other than the animal was entangled.
B. Subsequent Descriptions	Gear was described as being wrapped around the tail.
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	None noted
B. Subsequent Descriptions	None
Sighting prior to entanglement	Unknown
Re-sightings Post-entanglement	None
Life History Information	Unknown
NMFS Serious Injury/Mortality Determination	Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E15-10		
Field No.	J 081410 mw	Date 1 st Observed	8/14/10
Location 1 st Observed	2.6 NM east southeast of Schoodic Island, Maine 44° 18.3' N, 67° 58.6' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Minke	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	8/14/10	Gear Retrieved By	Maine Marine Patrol
Date Gear Received		Received From	
Sources:	USCG		Date Set
	CCS		Date Lost
	Fisherman	Owner Interview	Location
	Other		Depth
			Bottom Type
Gear Type:	Lobster pot	Target Species:	Lobster

Gear Description:

Recovered gear consists of two lobster traps rigged as a pair and includes all associated ground line, end line and surface buoy.

Comments:

Based on information gathered during an interview with the owner, the traps were rigged with 12 fathoms of 3/8" sink ground line. The end line is approximately half sink rope (top portion) and half float rope (bottom portion). The surface buoy is a 7" x 14" foam buoy on a PVC spindle and is attached to the end line with an off-the-shelf weak link swivel. Gear was originally set in Maine state waters.

Conclusions:

Entanglement occurred in lobster pot gear that was originally set in Maine state waters.

Report By:	John F. Kenney	Date:	2/16/12	Current Location of Gear	Returned to owner
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NMFS No.	E16-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Gear free
Date 1st Observed Entangled	8/19/2010
Species	Minke
Individual ID	Unknown
Location 1st Observed Entangled	1.7 NM northeast of Ragged Island, ME
Latitude/Longitude 1st Observed Entangled	43° 41.73'N 69° 56.88'W
Event Description	Fisherman reported the anchored entangled whale. MMP responded, relocated and was able to completely disentangle the whale.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Four bullet buoys trailing and line in the mouth.
B. Subsequent Descriptions	None
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	None noted
B. Subsequent Descriptions	None
Sighting prior to entanglement	Unknown
Re-sightings Post-entanglement	None
Life History Information	Unknown
NMFS Serious Injury/Mortality Determination	Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E16-10		
Field No.	J 081910 mw	Date 1 st Observed	8/19/10
Location 1 st Observed	1.7 NM south of Ragged Island, ME 43° 41.7' N 69° 56.9' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Minke	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	8/19/10	Gear Retrieved By	Maine MEP
Date Gear Received		Received From	Maine MEP
Sources:	USCG	Date Set	3 & 4 days earlier
	CCS	Date Lost	
	Fisherman	2 Owners Interviewed	Location 1.5 NM south of Ragged I., Me
	Other	Depth	
		Bottom Type	
Gear Type:	Lobster pot & unknown	Target Species:	Lobster & unknown
<p><u>Gear Description:</u> The recovered gear consists of 4 surface buoys with 5 foot long spindles and approximately 195 fathoms of both floating and sinking rope ranging from 5/16" to 7/16" in diameter. Six gangions were present with an approximate spacing of 11 fathoms. Two of the buoys had identical markings that allowed identification of the owner. One of the remaining buoys was marked and it's owner identified and the last buoy was unmarked.</p>			
<p><u>Comments:</u> Three (or more) separate gear sets were involved. Owners of 2 of the sets were identified and interviewed: Gear 1: Owner configures gear as trawls from 6 to 12 traps in length with 12 fm of 3/8" sink rope between traps with an endline at each end. Endlines may be entirely sink rope or may contain float rope for the bottom half. This fisherman fishes in exempt and non-exempt state waters. Gear 2: Owner configures gear as trawls from 6 to 12 traps in length with 12 fm of 3/8" to 7/16" sink rope between traps and usually an endline at each end. Endlines are sink line. This fisherman fishes in exempt and non-exempt state waters as well as federal waters. Gear 3: Unidentified gear type.</p>			
<p><u>Conclusions:</u> The entanglement occurred in lobster pot gear that had been set in exempt state waters. Both end lines and ground line were present. In addition to the pot gear some unidentified gear was also recovered during the disentanglement.</p>			
Report By:	John F. Kenney	Date:	2/26/12
		Current Location of Gear	NMFS, RI

NMFS No.	E17-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Entangled
Date 1st Observed Entangled	8/20/2010
Species	Humpback
Individual ID	2008 calf of Trident
Location 1st Observed Entangled	10.3 NM northeast of Race Point, Provincetown, MA
Latitude/Longitude 1st Observed Entangled	42° 11.31'N 70° 05.5'W
Event Description	<p>8/20/2010</p> <ul style="list-style-type: none"> Whale watch vessel reported and stood by the entangled whale until the PCCS response team could arrive. The whale was evasive and prevented any successful effort to remove the gear from the tail. <p>9/30/2010</p> <ul style="list-style-type: none"> Whale watch vessel briefly spotted the entangled whale but was unable to stand by. The PCCS response team attempted to relocate the whale but was unsuccessful. <p>10/11/2010</p> <ul style="list-style-type: none"> Whale watch vessel reported and stood by the entangled whale until the PCCS response team could arrive. The whale again was evasive and prevented any successful effort.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Wraps around the tailstock with two green bullet buoys trailing a short distance beyond the flukes.
B. Subsequent Descriptions	<p>10/11/2010</p> <ul style="list-style-type: none"> Only one green bullet buoy was present.

C. Diagram of Entangling Gear on Whale



Description of Wounds/Condition

A. During Initial Sighting

Entanglement trauma on the tailstock from tight lines.

B. Subsequent Descriptions

None

Sighting prior to entanglement

Yes – consult PCCS

Re-sightings Post-entanglement

None

Life History Information

Juvenile – consult PCCS

NMFS Serious Injury/Mortality Determination

Human-induced serious injury

FISHERY INTERACTION GEAR ANALYSIS

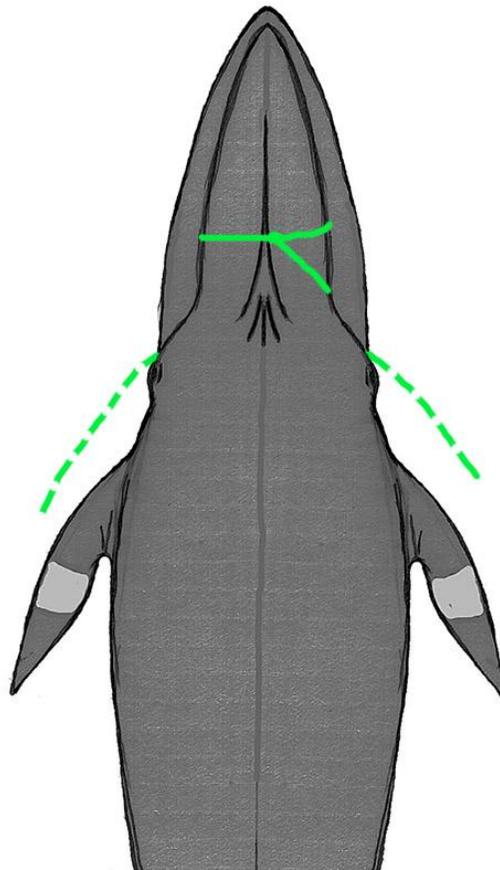
NMFS No.	E17-10		
Field No.	J 082010 hw	Date 1 st Observed	8/20/10
Location 1 st Observed	10.3 NM northeast of Race Point, Provincetown, MA 42° 11.3' N, 70° 5.5' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement Attempt
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	2008 calf of Trident	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		Gear Retrieved By			
Date Gear Received		Received From			
Sources:	USCG	Date Set			
	CCS	Date Lost			
	Fisherman	Location			
	Other	Depth			
		Bottom Type			
Gear Type:	Unknown - no gear recovered		Target Species:		
<u>Gear Description:</u> <p style="text-align: center;">No gear recovered.</p>					
<u>Comments:</u>					
<u>Conclusions:</u> <p style="text-align: center;">No gear recovered.</p>					
Report By:	John F. Kenney	Date:	2/26/12	Current Location of Gear	N.A.

NMFS No.	E18-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Entangled
Date 1st Observed Entangled	8/21/2010
Species	Minke
Individual ID	Unknown
Location 1st Observed Entangled	3.5 NM east northeast of Plymouth Harbor, MA
Latitude/Longitude 1st Observed Entangled	42° 00.34'N 70° 34.33'W
Event Description	<p>8/21/2010</p> <ul style="list-style-type: none"> Whale watch vessel reported and stood by the entangled while the PCCS response team traveled to the location. Upon arrival, the team documented a free-swimming whale with a partially embedded tight line on the rostrum. No trailing line was seen and combined with an evasive animal, the team was unable to remove any gear. <p>8/26/2010</p> <ul style="list-style-type: none"> The PCCS response team opportunistically sighted the whale while returning from a turtle disentanglement effort. The team again attempted to remove the gear from the rostrum, but the evasive whale foiled all efforts.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Tight line partially embedded in the rostrum.
B. Subsequent Descriptions	None

C. Diagram of Entangling Gear on Whale



Description of Wounds/Condition

A. During Initial Sighting

Embedded line trauma on the rostrum.

B. Subsequent Descriptions

None

Sighting prior to entanglement

Unknown

Re-sightings Post-entanglement

None

Life History Information

Unknown

NMFS Serious Injury/Mortality Determination

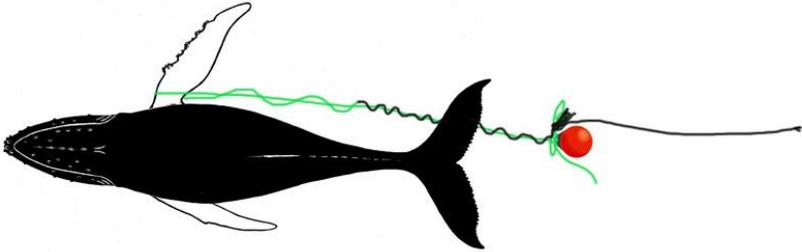
Human-induced serious injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E18-10		
Field No.	J 082110 mw	Date 1 st Observed	8/21/10
Location 1 st Observed	3.5 NM east northeast of Plymouth Harbor, MA 42° 0.3' N, 70° 34.3' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Minke	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved				Gear Retrieved By			
Date Gear Received				Received From			
Sources:	USCG			Date Set			
	CCS			Date Lost			
	Fisherman			Location			
	Other			Depth			
				Bottom Type			
Gear Type:		Unknown – no gear recovered		Target Species:			
<u>Gear Description:</u> <p style="text-align: center;">No gear recovered.</p>							
<u>Comments:</u> 							
<u>Conclusions:</u> <p style="text-align: center;">No gear recovered.</p>							
Report By:	John F. Kenney	Date:	2/26/12	Current Location of Gear	N.A.		

NMFS No.	E19-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Gear free
Date 1st Observed Entangled	8/31/2010
Species	Humpback
Individual ID	Bearclaw
Location 1st Observed Entangled	6.2 NM east of Chatham, MA
Latitude/Longitude 1st Observed Entangled	41° 42.44'N 69° 47.42'W
Event Description	<p>A recreational vessel reported the entanglement and stood by until it relieved by a USCG auxiliary aerial survey. The whale was briefly lost before PCCS arrived but was relocated thanks to the combined efforts of a tuna spotter, MA DMF aerial shark survey, a MA DMF vessel and PCCS.</p> <p>Upon arrival it was clear this was a new entanglement for this individual (see E13-10). The PCCS response team used traditional disentanglement keggging techniques to remove and recover all the entangling gear.</p>
Description of Gear on Whale as Reported	
A. During Initial Sighting	Line most likely wrapped around the right flipper and twisted back to a tangle of line and a polyball beyond the flukes. Approximately 140 feet of line trailed beyond the polyball.
B. Subsequent Descriptions	None
C. Diagram of Entangling Gear on Whale	 <p>The diagram shows a black silhouette of a whale from a side profile. A green line is wrapped around the whale's right flipper. The line extends from the flipper, loops back, and then continues as a single line to a red polyball located behind the whale's tail flukes.</p>
Description of Wounds/Condition	
A. During Initial Sighting	None noted
B. Subsequent Descriptions	None

Sighting prior to entanglement	None
Re-sightings Post-entanglement	8/31/2010
Life History Information	Juvenile – contact PCCS
NMFS Serious Injury/Mortality Determination	Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E19-10		
Field No.	J 083110 hw	Date 1 st Observed	8/31/10
Location 1 st Observed	6.2 NM east of Chatham, MA 41° 42.4' N, 69° 47.4' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Bearclaw	Gear Analysis Conducted (y/n)	Yes

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	8/31/10	Gear Retrieved By	PCCS
Date Gear Received	11/2/10	Received From	PCCS
Sources:	USCG	Date Set	8/30/10
	CCS	Date Lost	
	Fisherman	Owner Interview	Location Same general location as first sighted entangled.
	Other		Depth
		Bottom Type	
Gear Type:	Lobster pot	Target Species:	Lobster
<p><u>Gear Description:</u> A total of approximately 246 feet of 3/8" rope was recovered. Gear consists of a partial surface system, including an 'A-1' tide ball, but missing the highflyer. The remaining rope is endline. The upper portion of the endline is sink rope while the lower portion is float rope. Weak links and endline marking were present on recovered gear.</p>			
<p><u>Comments:</u> The owner describes his usual gear configuration as 15 trap trawls with each trap separated by 25 fathoms of 3/8" sink rope. Each end of the trawl has an endline and tide ball with one end also having a highflyer. This fisherman fished both state and federal waters.</p>			
<p><u>Conclusions:</u> Whale became entangled in the endline of lobster pot gear.</p>			
Report By:	John F. Kenney	Date:	2/26/12
		Current Location of Gear	NMFS, RI

NMFS No.	E20-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Entangled
Date 1st Observed Entangled	9/10/2010
Species	Right
Individual ID	#1503, Trilogy
Location 1st Observed Entangled	15.5 NM northeast of Gloucester, MA
Latitude/Longitude 1st Observed Entangled	42° 41.56'N 70° 21.54'W
Event Description	Whale watch vessel documented and reported the entangled whale. PCCS attempted a response but rough seas forced them to return to port.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Line over the rostrum and entering the mouth on the left side.
B. Subsequent Descriptions	None
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	The overall condition of the animal was described as poor.
B. Subsequent Descriptions	None
Sighting prior to entanglement	4/13/2010
Re-sightings Post-entanglement	None
Life History Information	Adult female
NMFS Serious Injury/Mortality Determination	Human-induced serious injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E20-10		
Field No.	J 091010 rw	Date 1 st Observed	9/10/10
Location 1 st Observed	15.5 NM northeast of Gloucester, MA 42° 41.6' N, 70° 21.5' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Right	Gear Recovered (y/n)	No
Individual ID	Trilogy, Eg # 1503	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved				Gear Retrieved By			
Date Gear Received				Received From			
Sources:	USCG			Date Set			
	CCS			Date Lost			
	Fisherman			Location			
	Other			Depth			
				Bottom Type			
Gear Type:		Unknown - no gear recovered		Target Species:			
<u>Gear Description:</u> <p style="text-align: center;">No gear recovered.</p>							
<u>Comments:</u> 							
<u>Conclusions:</u> <p style="text-align: center;">No gear recovered.</p>							
Report By:	John F. Kenney	Date:	2/26/12	Current Location of Gear	N.A.		

NMFS No.	E21-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Entangled
Date 1st Observed Entangled	10/02/2010
Species	Humpback
Individual ID	Could not determine
Location 1st Observed Entangled	4.0 NM northeast of Race Point, Provincetown, MA
Latitude/Longitude 1st Observed Entangled	42° 06.594'N 70° 11.082'W
Event Description	Whale watch vessel saw one surfacing of an entangled whale, which was not relocated. No response was undertaken. Based on the description it is possible this is a sighting of the same entangled animal first seen on 8/20/2010 (E17-10); however, no documentation prevents verification.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Green line on head.
B. Subsequent Descriptions	None
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	None noted
B. Subsequent Descriptions	None
Sighting prior to entanglement	Unknown
Re-sightings Post-entanglement	None
Life History Information	Unknown, possibly a young animal.
NMFS Serious Injury/Mortality Determination	Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E21-10		
Field No.	J 100210 hw	Date 1 st Observed	10/02/10
Location 1 st Observed	4.0 NM northeast of Race Point, Provincetown, MA 42° 6.6' N, 70° 11.1' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Could not determine	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved				Gear Retrieved By			
Date Gear Received				Received From			
Sources:	USCG			Date Set			
	CCS			Date Lost			
	Fisherman			Location			
	Other			Depth			
				Bottom Type			
Gear Type:		Unknown - no gear recovered		Target Species:			
<u>Gear Description:</u> <p style="text-align: center;">No gear recovered.</p>							
<u>Comments:</u> 							
<u>Conclusions:</u> <p style="text-align: center;">No gear recovered.</p>							
Report By:	John F. Kenney	Date:	2/28/12	Current Location of Gear	N.A.		

NMFS No.	E22-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Gear shed
Date 1st Observed Entangled	10/20/2010
Species	Right
Individual ID	#3120
Location 1st Observed Entangled	22.5 NM east southeast of Portsmouth, NH
Latitude/Longitude 1st Observed Entangled	42° 55.088'N 70° 13.469'W
Event Description	<p>10/20/2010</p> <ul style="list-style-type: none"> WCNE on a right whale survey reported and documented the entangled animal. Time of day and distance from PCCS team prevented any response. Photographs indicated the entanglement was still shifting significantly during the sighting. <p>11/29/2010</p> <ul style="list-style-type: none"> NEFSC discovered during post- trip photo analysis from an aerial survey that this individual was briefly seen. <p>1/17/2011</p> <ul style="list-style-type: none"> NEFSC aerial survey located and documented the animal. Due to the time of day and distance from shore no response was undertaken. <p>3/23/2011</p> <ul style="list-style-type: none"> NEFSC aerial survey located and documented the animal. The left flipper condition appeared poor, although no gear was visible. Due to an evasive whale, it was unclear if gear was still present. <p>4/19/2011</p> <ul style="list-style-type: none"> PCCS aerial survey located and documented the animal. Again, the whale was evasive and it was unclear if the animal was still entangled. The left flipper still appeared to be in poor condition. <p>9/18/2011</p> <ul style="list-style-type: none"> NEAq research vessel located the whale and confirmed all gear had been shed, although the exact timeframe is unknown.

Description of Gear on Whale as Reported	
A. During Initial Sighting	Red monofilament mesh rolled up in a loop over the back. Small red floats were visible in the float line. Significant amount of gear was loosely floating nearby the animal and occasionally becoming entangled on various body parts.
B. Subsequent Descriptions	11/29/2010 <ul style="list-style-type: none"> Red monofilament mesh rolled up in a loop over the back. No trailing gear was visible. 1/17/2011 <ul style="list-style-type: none"> Red monofilament mesh rolled up in a loop over the back. No trailing gear was visible.
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	None noted
B. Subsequent Descriptions	3/23/2011 and 4/19/2011 <ul style="list-style-type: none"> Left flipper appeared pale in color.
Sighting prior to entanglement	10/19/2010
Re-sightings Post-entanglement	9/18/2011
Life History Information	Adult male – previously entangled in 2002/2003
NMFS Serious Injury/Mortality Determination	Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E22-10		
Field No.	J 102010 rw	Date 1 st Observed	10/20/10
Location 1 st Observed	22.5 NM east southeast of Portsmouth, NH 42° 55.1' N, 70° 13.5' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Right	Gear Recovered (y/n)	No
Individual ID	Eg # 3120	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved				Gear Retrieved By			
Date Gear Received				Received From			
Sources:	USCG			Date Set			
	CCS			Date Lost			
	Fisherman			Location			
	Other			Depth			
				Bottom Type			
Gear Type:		Unknown - no gear recovered		Target Species:			
<u>Gear Description:</u> <p style="text-align: center;">No gear recovered.</p>							
<u>Comments:</u> 							
<u>Conclusions:</u> <p style="text-align: center;">No gear recovered.</p>							
Report By:	John F. Kenney	Date:	2/28/12	Current Location of Gear	N.A.		

NMFS No.	E23-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Entangled
Date 1st Observed Entangled	11/15/2010
Species	Unknown
Individual ID	Unknown
Location 1st Observed Entangled	Off the Wolves, Campobello Island, NB
Latitude/Longitude 1st Observed Entangled	44° 58.476'N 66° 41.534'W
Event Description	Fisherman provided an accurate description, one day after the sighting, of an entangled whale trailing some line and a red bullet buoy. CWR searched the area the next day but did not relocate the animal.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Trailing line with a bullet buoy.
B. Subsequent Descriptions	None
C. Diagram of Entangling Gear on Whale	None
Description of Wounds/Condition	
A. During Initial Sighting	None noted
B. Subsequent Descriptions	None
Sighting prior to entanglement	Unknown
Re-sightings Post-entanglement	None
Life History Information	Unknown
NMFS Serious Injury/Mortality Determination	Human-induced injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E23-10		
Field No.	J 111510 unk	Date 1 st Observed	11/15/10
Location 1 st Observed	Off the Wolves, Campobello Island, NB 44° 58.5' N, 66° 41.5' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Unknown	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved				Gear Retrieved By			
Date Gear Received				Received From			
Sources:	USCG			Date Set			
	CCS			Date Lost			
	Fisherman			Location			
	Other			Depth			
				Bottom Type			
Gear Type:		Unknown - no gear recovered		Target Species:			
<u>Gear Description:</u> <p style="text-align: center;">No gear recovered.</p>							
<u>Comments:</u> 							
<u>Conclusions:</u> <p style="text-align: center;">No gear recovered.</p>							
Report By:	John F. Kenney	Date:	2/28/12	Current Location of Gear	N.A.		

NMFS No.	E24-10
Initial Status	Dead
Subsequent Status (as of the date the NMFS report was completed)	Deceased
Date 1st Observed Entangled	11/27/2010
Species	Humpback
Individual ID	Unknown
Location 1st Observed Entangled	0.9 NM east northeast of Grand Manan Island, NB
Latitude/Longitude 1st Observed Entangled	44° 47.298'N 66° 43.5'W
Event Description	Carcass was initially documented with gear, although the stranding did not have any gear present.
Description of Gear on Whale as Reported	
A. During Initial Sighting	Red bullet buoy trailing behind the whale although no line was visible.
B. Subsequent Descriptions	None
C. Diagram of Entangling Gear on Whale	
Description of Wounds/Condition	
A. During Initial Sighting	Good condition with minor entanglement trauma visible.
B. Subsequent Descriptions	None
Sighting prior to entanglement	10/18/2010
Re-sightings Post-entanglement	None - deceased
Life History Information	Unknown
NMFS Serious Injury/Mortality Determination	Human-induced mortality

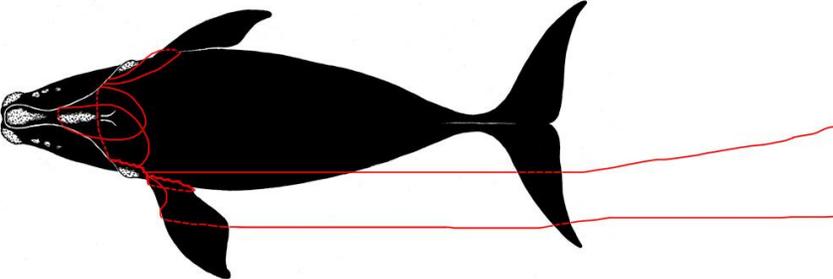
FISHERY INTERACTION GEAR ANALYSIS

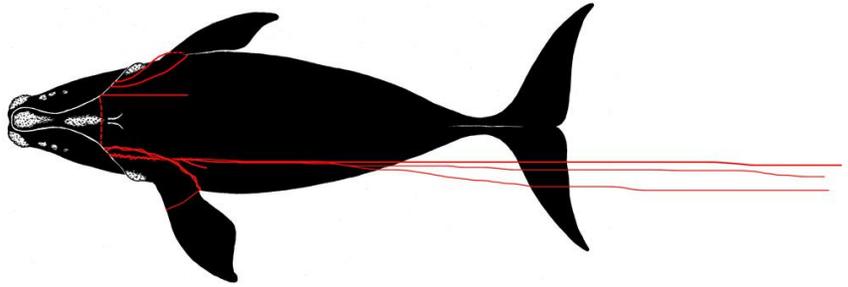
NMFS No.	E24-10		
Field No.	J 112710 hw	Date 1 st Observed	11/27/10
Location 1 st Observed	0.9 NM east northeast of Grand Manan Island, NB 44° 47.3' N, 66° 43.5' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Carcass
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved				Gear Retrieved By			
Date Gear Received				Received From			
Sources:	USCG			Date Set			
	CCS			Date Lost			
	Fisherman			Location			
	Other			Depth			
				Bottom Type			
Gear Type:		Unknown - no gear recovered		Target Species:			
<u>Gear Description:</u> <p style="text-align: center;">No gear recovered.</p>							
<u>Comments:</u> 							
<u>Conclusions:</u> <p style="text-align: center;">No gear recovered.</p>							
Report By:	John F. Kenney	Date:	2/28/12	Current Location of Gear	N.A.		

NMFS No.	E25-10
Initial Status	Alive
Subsequent Status (as of the date the NMFS report was completed)	Deceased
Date 1st Observed Entangled	12/25/2010
Species	Right
Individual ID	#3911
Location 1st Observed Entangled	14.6 NM southeast of Jacksonville, FL
Latitude/Longitude 1st Observed Entangled	30° 12.6'N 81° 12.7'W
Event Description	<p>12/25/2010</p> <ul style="list-style-type: none"> FWC aerial survey documented and reported the entanglement whale to the FWC response team. Due to the complex entanglement the response team attached telemetry for future efforts. The whale was then tracked daily until removal of telemetry on 1/15/2011. <p>12/28/2010</p> <ul style="list-style-type: none"> FWC aerial survey documented the animal. Poor sea conditions for disentanglement prevented any response. <p>12/29/2010</p> <ul style="list-style-type: none"> A planned disentanglement effort was undertaken with GA DNR, FWC and numerous aerial crews. Traditional keging techniques were used in an attempt to slow the animal down. The animal remained persistently evasive. Numerous attempts were made to cut one of the back loop using long cutting poles and cutting darts. All efforts failed. The overall health of the animal had declined since the first sighting. <p>12/30/2010</p> <ul style="list-style-type: none"> A planned disentanglement effort was undertaken with GA DNR, FWC and numerous aerial crews. A large mass of trailing gear was removed and one of the loops over the back was cut. It was thought the remaining gear was still life-threatening and sedation would be needed for removal. The ALWDN began planning for sedation for a future effort. <p>1/04/2011</p> <ul style="list-style-type: none"> FWC aerial survey located and documented the animal. The health of the animal was continuing to decline. Weather conditions prevented a response (calm conditions are needed for sedation administration).

	<p>1/11/2011</p> <ul style="list-style-type: none"> • FWC aerial survey located and documented the animal. The health of the animal was continuing to decline. No response was undertaken because of continued rough conditions for sedation. <p>1/15/2011</p> <ul style="list-style-type: none"> • A massive effort involving personnel from NOAA, GA DNR, FWC, WHOI, University of Florida and countless staff from other universities and non-profit groups, successfully sedated and disentangled the whale. Almost all life-threatening gear was cut and/or removed. It was thought the remaining gear would be shed. <p>2/02/2011</p> <ul style="list-style-type: none"> • The carcass was discovered with some entangling gear remaining. Massive entanglement trauma was present on the head, mouth and flippers. Acute cause of death was determined to be shark predation, although animal was severely compromised due to entanglement.
<p>Description of Gear on Whale as Reported</p>	
<p>A. During Initial Sighting</p>	<p>Massively complex entanglement involving the head, mouth and both flippers. Approximately 200 feet of lines trailed beyond the flukes.</p>
<p>B. Subsequent Descriptions</p>	<p>See diagrams.</p>
<p>C. Diagram of Entangling Gear on Whale</p>	<p>12/25/2010</p>  <p>Conclusion of 12/30/2010</p>



Description of Wounds/Condition	
A. During Initial Sighting	Whale appeared to have minor indication of health decline
B. Subsequent Descriptions	Every sighting showed progressive decline in overall health.
Sighting prior to entanglement	2/20/2010
Re-sightings Post-entanglement	None
Life History Information	Juvenile female
NMFS Serious Injury/Mortality Determination	Human-induced serious injury

FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E25-10		
Field No.	J 122510 rw	Date 1 st Observed	12/25/10
Location 1 st Observed	14.6 NM southeast of Jacksonville, FL 30° 12.6' N 81° 12.7' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Partial 12/29/10 Partial 12/30/10 Partial 1/15/11 Carcass sighted 2/1/11
Species	Right	Gear Recovered (y/n)	Yes
Individual ID	Eg# 3911(calf of Eg# 2611)	Gear Analysis Conducted (y/n)	Yes

GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	12/29/10 12/30/10 1/15/11 2/03/11	Gear Retrieved By	FWC, GDNR NMFS
Date Gear Received	3/01/11	Received From	NMFS SERO
Sources:	USCG	Date Set	
	CCS	Date Lost	
	Fisherman	Location	
	Other	Depth	
		Bottom Type	
Gear Type:	Trap / Pot	Target Species:	Unknown
<p><u>Gear Description:</u> A total of approximately 435 feet of 7/16" diameter polypropylene (floating) rope. Attached along this rope are 6 (possibly 7) gangions. Attached to each gangion is a bridle or a portion thereof. Some of the bridle ends are attached to plastic coated wire mesh, measuring 2" by 2" center to center.</p>			
<p><u>Comments:</u> The wire mesh is likely the remains of wire traps that parted off from themselves. This wire mesh, along with the 7/16" poly and associated gangions, is consistent with gear used in trap/pot fisheries conducted along the east coast of the U.S. and Canada.</p>			
<p><u>Conclusions:</u> While a specific fishery cannot be identified, this gear has characteristics consistent with fixed trap/pot gear.</p>			
Report By:	John F. Kenney	Date:	3/04/11
		Current Location of Gear	NMFS, RI