



**NOAA FISHERIES**

## Greater Atlantic Region Policy Series [19-04]

# 2016 Atlantic Large Whale Entanglement Report

David Morin, Glenn Salvador, John Higgins, and Mark Minton

Comments, questions or assistance with this document, please contact:

David Morin

Large Whale Disentanglement Coordinator

Email: [David.Morin@NOAA.gov](mailto:David.Morin@NOAA.gov)

Phone: (978) 282-8472

## ABSTRACT

This report summarizes all of the entanglement reports for the Atlantic coast that are reported to the National Marine Fisheries Service (NOAA Fisheries) and only addresses animals with new indications of entanglement that occurred in the calendar year of 2016. Pre-2016 cases that continued into 2016 are not listed. This report should not be considered a comprehensive list of every entanglement interaction that occurred but rather a minimum number as not all interactions are reported.

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# 2016 Atlantic Large Whale Entanglement Report

This report summarizes all of the entanglement reports for the Atlantic coast that are reported to the National Marine Fisheries Service (NOAA Fisheries) and only addresses animals with new indications of entanglement that occurred in the calendar year of 2016. Pre-2016 cases that continued into 2016 are not listed. This report should not be considered a comprehensive list of every entanglement interaction that occurred but rather a minimum number as not all interactions are reported.

Table 1. 2016 Atlantic large whale entanglement reports.

Indication of Entanglement*			
	Live	Dead	Total
Right Whale	5	2	7
Humpback Whale	30	1	31
Finback Whale	5	0	5
Minke Whale	1	4	5
Sei Whale	1	0	1
Unknown	1	0	1
TOTAL	43	7	50

\* “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 Center for Coastal Studies (CCS) staff and the account was descriptive enough to eliminate doubt about whether or not the whale was entangled.

## Wounds, condition, and NOAA Fisheries 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). NOAA Fisheries may obtain new information outside of the production time frame of this report which may alter any determination, status or sighting information. Whales not deemed to have a serious injury or mortality by NEFSC are categorized in this report as having a human-induced injury. Animals that have no gear documented or witnessed, with a Cause of Death or injuries determined to be entanglement, will not be listed in this report but rather in the NEFSC Mortality and Serious Injury report. The NEFSC “Mortality and Serious Injury Determinations for Baleen Whale Stocks along the Gulf of Mexico, United States East Coast and Atlantic Canadian Provinces, 2012-2016” report is available online: <https://www.nefsc.noaa.gov/publications/crd/crd1913/> Stock assessment reports that summarize the full status of a species are also available on our website: <https://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stock-assessment-reports-species-stock>

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 U.S. and Canadian partners within the Atlantic Large Whale Disentanglement Network (ALWDN). The reports contain all known U.S. east coast-wide large whale entanglement data, including animals that fall under U.S. protection but were outside U.S. borders (e.g. North Atlantic right whales, Gulf of Maine humpback whales). The reported cases within this report should be considered a minimum number and not comprehensive.
- The presence or absence of line is difficult to determine in monofilament cases. The first gear-free sighting for monofilament cases should not be taken as definitive assessment of lack of monofilament line due to environmental conditions, lighting, and animal behavior, which can make detectability of line difficult. CCS compiles thousands of photographs from numerous whale watch companies and ALWDN partners for these determinations. We are grateful for their analysis and contribution to this report.
- Subsequent status definitions:
  - Entangled = animal was last seen with an entanglement that may or may not be life-threatening;
  - Gear shed = animal shed the entangling gear on its own without human intervention;
  - Disentangled – gear free = animal had all gear completely removed by disentanglement network responders;
  - Disentangled – gear shed = animal had all life-threatening gear removed by disentanglement network responders, but some non-life threatening gear remained and was later shed by the whale;
  - Disentangled – monitor = animal had all life-threatening gear removed with some non life-threatening gear remaining that is expected to be shed.
- Gear analysis was conducted by NOAA staff on recovered gear or through owner interviews when possible. All gear analysis is quantitative in nature and any qualitative information is outside the scope of this report. Target species was based on owner interviews or gear determination.
- Location 1<sup>st</sup> observed is where the entangled whale was first sighted, not necessarily where the whale first became entangled.

Acknowledgements:

- New England Aquarium and the Right Whale Consortium provided sighting and life history information for right whales.
- Demography and sighting information for humpback whales was provided by CCS, with contributions from 7 Seas Whale Watch, Blue Ocean Society, Boston Harbor Cruises, Brier Island Whale and Seabird Cruises, Dolphin Fleet, Florida Fish and Wildlife Commission, Georgia Department of Natural Resources, Gotham Whale and Whale and Dolphin Conservation. Please contact Jooke Robbins of CCS for more information.
- CCS compiles thousands of photographs from numerous whale watch companies and ALWDN partners for these determinations. We are grateful for their analysis and contribution to this report.
- Scott Landry of CCS supplied the entanglement diagrams.
- Many thanks to numerous NOAA Fisheries staff and the GARFO policy series editors that offered helpful comments.

Table 2. Key for common acronyms

ALWDN	Atlantic Large Whale Disentanglement Network
BOS	Blue Ocean Society, NH
AMAPPS	Atlantic Marine Assessment Program for Protected Species
CCS	Center for Coastal Studies, MA
COA	College of the Atlantic, ME
CWI	Canadian Whale Institute, Canada
CWR	Campobello Whale Rescue, Canada
DFO	Department of Fisheries and Oceans, Canada
ECE	East Coast Ecosystems, Canada
ECO	EcoHealth Alliance
EWS	Early Warning System
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
MARS	Marine Animal Rescue Society, Canada
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
NLWRS	Newfoundland and Labrador Whale Release and Strandings, Canada
NMFS	National Marine Fisheries Service
NOAA	National Oceanic and Atmospheric Administration
OLE	Office of Law Enforcement
RI DEM	Rhode Island Department of Environmental Management
RIEP	Rhode Island Environmental Police
SAG	Surface Active Group
SBNMS	Stellwagen Bank National Marine Sanctuary, MA
SC DNR	South Carolina Department of Natural Resources
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
VMRC	Virginia Marine Resources Commission
WHOI	Woods Hole Oceanographic Institution, MA
WW	Whale Watch

Table 3. Atlantic entanglement summary for 2016 confirmed cases. Continued on next page

Entanglement Report Number	Species	Date of First Observation	Dead/ Alive	SI Determination	Gear Collected	Type of Gear	Gear part ID
E01-16	Humpback	1/07/2016	Alive	SI(PR)	Yes	Lobster	G, T
E02-16	Humpback	1/11/2016	Alive	Non-SI	Yes	Sink gillnet	B, N, V
E03-16	Humpback	1/14/2016	Alive	Non-SI	Yes	Sink gillnet	N, S, V
E04-16	Humpback	4/24/2016	Alive	SI(PR)	No	Unknown	S, V
E05-16	Minke	5/03/2016	Dead	SI	Yes	Lobster	B, V
E06-16	Unknown	5/09/2016	Alive	SI(PR)	No	Unknown	B, V
E07-16	Sei	5/11/2016	Alive	Non-SI	No	Debris	N/A
E08-16	Humpback	5/14/2016	Alive	Non-SI	Yes	Lobster	B, V
E09-16	Humpback	5/18/2016	Alive	SI	Yes	Lobster and unknown	B, V
E10-16	Humpback	5/21/2016	Alive	SI(PR)	No	Sink gillnet	N
E11-16	Humpback	5/26/2016	Alive	Non-SI	Yes	Unknown trap/pot	B, V
E12-16	Humpback	6/16/2016	Alive	Non-SI	U	Unknown	B, V
E13-16	Finback	6/18/2016	Alive	Non-SI	Yes	Lobster	S, V
E14-16	Humpback	7/02/2016	Alive	Non-SI	No	Rec. fishing lure	N/A
E15-16	Humpback	7/05/2016	Alive	SI	Yes	Unknown	S, V
E16-16	Finback	7/06/2016	Alive	SI(PR)	No	Unknown	U
E17-16	Finback	7/08/2016	Alive	SI(PR)	No	Fishing lure	M
E18-16	Humpback	7/26/2016	Alive	Non-SI	No	Unknown	U
E19-16	Finback	7/27/2016	Alive	Non-SI	Yes	Unknown trap/pot	B, V
E20-16	Humpback	8/08/2016	Alive	Non-SI	Yes	Unknown trap/pot	B, G, V

Table 3 notes – Dead/Alive column represents the latest known status as of the writing of this report. 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; SI (PR) = insufficient information available to make an informed determination, prorated value of 0.75. Refer to <https://www.nefsc.noaa.gov/publications/crd/crd1913/> for more information regarding determination definitions. Abbreviations within the Gear part ID: V = Vertical/End Line; B= Single Buoy; S = Surface System (multiple buoys); G = Ground Line; N = Gillnet/Mesh; T = Trap/Pot; M = Monofilament Line; U = Unknown, gear type or gear part could not be determined; N/A = Not applicable, no gear was analyzed. 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.

Table 3 continued. Atlantic entanglement summary for 2016 confirmed cases.

Entanglement Report Number	Species	Date of First Observation	Dead/Alive	SI Determination	Gear Collected	Type of Gear	Gear part ID
E21-16	Minke	8/09/2016	Alive	Non-SI	Yes	Lobster	B, V
E22-16	Right	8/13/2016	Alive	SI	Yes	Canadian snow crab	S, V
E23-16	Humpback	8/14/2016	Alive	Non-SI	Yes	Lobster	B, V
E24-16	Minke	8/15/2016	Dead	SI	No	Unknown	U
E25-16	Humpback	8/15/2016	Alive	Non-SI	Unknown	Canadian crab	G
E26-16	Right	8/16/2016	Alive	SI(PR)	No	Unknown	B, V
E27-16	Humpback	8/16/2016	Alive	Non-SI	No	Unknown	M
E28-16	Right	8/28/2016	Alive	SI	No	Unknown	U
E29-16	Minke	8/30/2016	Dead	SI	Yes	Lobster	B, V
E30-16	Right	8/31/2016	Dead	SI	Yes	Canadian snow crab	S, V
E31-16	Humpback	9/02/2016	Alive	SI(PR)	No	Unknown	B, V
E32-16	Humpback	9/15/2016	Alive	Non-SI	No	Lobster	B, V
E33-16	Humpback	9/16/2016	Alive	Non-SI	Yes	Lobster	V
E34-16	Humpback	9/16/2016	Alive	Non-SI	No	Unknown	M
E35-16	Humpback	9/17/2016	Alive	Non-SI	No	Unknown	M
E36-16	Right	9/22/2016	Alive	Non-SI	Yes	Lobster	S, V
E37-16	Right	9/23/2016	Dead	SI	Yes	Canadian snow crab	S, V
E38-16	Humpback	10/08/2016	Alive	Non-SI	No	Unknown	M
E39-16	Humpback	10/16/2016	Dead	SI	Yes	Lobster	B, V
E40-16	Humpback	10/19/2016	Alive	Non-SI	Yes	Lobster	B, V
E41-16	Humpback	10/25/2016	Alive	Non-SI	Yes	Sink gillnet	N
E42-16	Humpback	11/13/2016	Alive	SI(PR)	No	Unknown	M
E43-16	Humpback	11/14/2016	Alive	SI(PR)	No	Unknown trap/pot	B, V

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Table 3 continued. Atlantic entanglement summary for 2016 confirmed cases.

Entanglement Report Number	Species	Date of First Observation	Dead/Alive	SI Determination	Gear Collected	Type of Gear	Gear part ID
E44-16	Right	12/04/2016	Alive	SI(PR)	No	Unknown	N
E45-16	Humpback	12/04/2016	Alive	SI(PR)	No	Unknown	B, V
E46-16	Minke	12/04/2016	Dead	Non-SI	Yes	Sink Gillnet	N
E47-16	Humpback	12/08/2016	Alive	Non-SI	Yes	Lobster	B, V
E48-16	Finback	12/14/2016	Alive	SI(PR)	No	Unknown	B, V
E49-16	Humpback	12/19/2016	Alive	SI(PR)	No	Unknown	B, V
E50-16	Humpback	12/20/2016	Alive	Non-SI	Yes	Lobster	B, V

Table 3 notes – Dead/Alive column represents the latest known status as of the writing of this report. 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; SI (PR) = insufficient information available to make an informed determination, prorated value of 0.75. Refer to <https://www.nefsc.noaa.gov/publications/crd/crd1913/> for more information regarding determination definitions. Abbreviations within the Gear part ID: V = Vertical/End Line; B= Single Buoy; S = Surface System (multiple buoys); G = Ground Line; N = Gillnet/Mesh; T = Trap/Pot; M = Monofilament Line; U = Unknown, gear type or gear part could not be determined; N/A = Not applicable, no gear was analyzed. 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.



## 2016 Entanglements

<b>NMFS No.</b>	<b>E01-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Disentangled
<b>Date First Observed Entangled</b>	1/07/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Not identifiable
<b>Location First Observed Entangled</b>	1 NM south of Great Captains Island, Greenwich, CT
<b>Latitude/Longitude First Observed Entangled</b>	40° 57.6'N    73° 37.2'W
<b>Event Description</b>	Commercial fisherman reported he encountered a whale entangled in his gear after the incident. The fisherman was unaware of who to contact during the event and preceded to remove line from the mouth and tail from the anchored whale. He recovered almost all of his gear except for one pot. Given the description, it is believed the whale is gear free.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	One line was in the mouth and multiple lines wrapped around the tail.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	Whale was swimming with its tail down and using its flippers for propulsion suggesting some physical trauma occurred.
<b>Sighting Prior to Entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	Unknown
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced prorated injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E01-16		
Field No.	PR 10716 Mn	Date First Observed	1/07/2016
Location First Observed	1 NM south of Great Captains Island, Greenwich, CT 40° 57.6' N, 73° 37.2' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		1/07/2016	Gear Retrieved By	Commercial fisherman	
Date Gear Received		N/A	Received From	N/A	
Sources:	USCG		Date Set	~ December 23, 2015	
	CCS		Date Lost	Unknown	
	Fisherman	Photos	Location	Unknown	
	Other		Depth	60 feet	
			Bottom Type	Sand / gravel	
Gear Type:	Trap/pot gear		Target Species:	Lobster	
<u>Gear Description:</u> 10 pot trawls using 3/8” floating ground line between the traps with a length of approximately 6 fathoms. No endlines are used as the fisherman grapples between the 1st and 2 <sup>nd</sup> pot.					
<u>Comments:</u> Fisherman recovered almost all of his gear except for one pot.					
<u>Conclusions:</u> Whale entangled in floating groundline in an exempted area of Long Island Sound.					
Report By:	Glenn Salvador	Date:	3/30/2018	Current Location of Gear	Fisherman recovered gear

<b>NMFS No.</b>	<b>E02-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Disentangled
<b>Date First Observed Entangled</b>	1/11/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	0.9 NM southeast of Hatteras, NC
<b>Latitude/Longitude First Observed Entangled</b>	35° 12.3'N 75° 39.6'W
<b>Event Description</b>	A commercial fisherman reported the entangled whale in their gillnet to the USCG. There was some confusion about the appropriate parties that needed to be contacted and authorization was given to the fisherman to disentangle the animal by a non-NOAA party. Four "passes" were made to disentangle the whale and they believed that all gear was removed.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Whale was wrapped in gillnet around the body, tail and fluke.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	3-4 fresh entanglement abrasions visible on the back near the dorsal fin and fluke.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E02-16		
Field No.	PR 11116 Mn	Date First Observed	1/11/2016
Location First Observed	0.9 NM southeast of Hatteras, NC 35° 12.3' N, 75° 39.6' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

## GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		1/11/2016	Gear Retrieved By		Commercial fisherman	
Date Gear Received		N/A	Received From		N/A	
Sources:	USCG		Date Set		1/11/2016	
	CCS		Date Lost		N/A	
	Other		Location		0.9 NM SE of Hatteras, NC	
			Depth		40 feet	
			Bottom Type		Sand	
Gear Type:		Sink gillnet	Target Species:		Smooth dogfish	
<u>Gear Description:</u> String of six 6” mesh sink gillnet with required weak links.						
<u>Comments:</u> As fisherman was hauling they noticed the whale moving backwards and presumed the animal became entangled. After contacting USCG, they were advised to release the animal if safe to do so. The crew pulled the animal close to the vessel and made a series of cuts to completely remove all gear.						
<u>Conclusions:</u> Animal entangled in 6” mesh gillnet. Gear was unanchored and was not required to be anchored as it was a daytime set. Each net panel has the appropriate five weak links. Surface system also in compliance with weak links.						
Report By:		Glenn Salvador	Date:	3/30/2018	Current Location of Gear	Fisherman recovered gear

<b>NMFS No.</b>	<b>E03-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Gear shed
<b>Date First Observed Entangled</b>	1/14/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Not identifiable
<b>Location First Observed Entangled</b>	1.0 NM northeast of Fort Story, VA
<b>Latitude/Longitude First Observed Entangled</b>	36° 56.7'N 70° 00.0'W
<b>Event Description</b>	<p>1/14/2016</p> <ul style="list-style-type: none"> <li>A NOAA research vessel found the whale entangled in gillnet. VAq responded and managed to attach a telemetry buoy and two polyballs for an effort the next day. The fisherman was identified and offered assistance for the effort.</li> </ul> <p>1/15/2016</p> <ul style="list-style-type: none"> <li>USCG, VAq, CCS and the fisherman responded and relocated the telemetry buoy with gear attached. The gear was handed over to the fisherman and he believed almost all of his gear was recovered except for a portion of one endline.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line over the head and in the mouth. The tail and fluke was also involved.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	Unknown
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	<b>E03-16</b>		
Field No.	PR 11416 Mn	Date First Observed	1/14/2016
Location First Observed	1.0 NM NE of Fort Story, VA 36° 56.7' N, 70° 00.0' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

## GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	1/15/2016	Gear Retrieved By	NOAA OLE
Date Gear Received	N/A	Received From	N/A
Sources:	USCG	Date Set	1/11/2016
	CCS	Date Lost	N/A
	Fisherman	Location	1.0 NM NE of Fort Story, VA
	Other	Depth	62 feet
		Bottom Type	Sandy
Gear Type:	Sink gillnet	Target Species:	Spiny dogfish
<p><u>Gear Description:</u> Four 300' net panels of 5.5" mesh, 25 meshes deep. Weak links present on each net. 22 lbs Danforth style anchors on each end. Buoy line consisted of 90' of 7/16" sink line.</p>			
<p><u>Comments:</u> Fisherman offered assistance for the disentanglement effort and to recover gear. All of his gear was recovered except for a small portion of one endline.</p>			
<p><u>Conclusions:</u> Animal entangled in endline of gillnet gear that was targeting spiny dogfish. Surface system, anchoring system and net panels were all in compliance.</p>			
Report By:	Glenn Salvador	Date:	3/30/2018
		Current Location of Gear	Fisherman retained gear

<b>NMFS No.</b>	<b>E04-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Entangled
<b>Date First Observed Entangled</b>	4/24/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	1 NM southeast of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 02.8'N    70° 14.3'W
<b>Event Description</b>	<p>4/24/2016</p> <ul style="list-style-type: none"> <li>Local WW found and reported the entangled whale. CCS responded and attempted to attach a control line but due to the short amount of line trailing, an evasive animal who was also heading out into rougher seas, all attempts failed.</li> </ul> <p>4/30/2016</p> <ul style="list-style-type: none"> <li>Kayakers and beachgoers reported the animal. CCS again responded and worked for five hours to attach a control line but ultimately again had no success due to an evasive animal.</li> </ul> <p>5/14/2016</p> <ul style="list-style-type: none"> <li>NEFSC research vessel sighted and then reported the whale the following day. No response was undertaken.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line and one orange buoy trailing about five feet behind the fluke and one bullet buoy trailing about 10 feet behind the fluke.
<b>B. Subsequent Descriptions</b>	Same as first sighting.
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex

<b>NMFS Serious Injury/Mortality Determination</b>
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Human-induced prorated injury



## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	<b>E04-16</b>		
Field No.	PR 42416 Mn	Date First Observed	4/24/2016
Location First Observed	1 NM southeast of Race Point, Provincetown, MA 42° 02.8' N, 70° 14.3' 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		N/A		Gear Retrieved By		N/A					
Date Gear Received		N/A		Received From		N/A					
Sources:	USCG			Date Set		Unknown					
	CCS	Photographs		Date Lost		Unknown					
	Fisherman			Location		Unknown					
	Other			Depth		Unknown					
				Bottom Type		Unknown					
Gear Type:		Unknown		Target Species:		Unknown					
<u>Gear Description:</u> A bullet buoy and small orange polyball were seen trailing behind the animal.											
<u>Comments:</u> None.											
<u>Conclusions:</u> Surface system and unknown line were trailing behind the animal with an unknown attachment point.											
Report By:		Glenn Salvador		Date:		3/30/2018		Current Location of Gear		N/A	

<b>NMFS No.</b>	<b>E05-16</b>
<b>Initial Status</b>	Dead
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Deceased
<b>Date First Observed Entangled</b>	5/03/2016
<b>Species</b>	Minke
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	Horsehose Cove, Biddeford, ME
<b>Latitude/Longitude First Observed Entangled</b>	43° 24.9'N 70° 23.2'W
<b>Event Description</b>	Marine Mammals of Maine received a report of the entangled carcass. A few days later, a full necropsy was completed.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting both side of the mouth twisting together on the ventral side of the animal.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Multiple sites of entanglement trauma all along the body and tail/fluke. Trauma indicated that the twisted line exiting the mouth wrapped around the body several times.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Adult female
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced mortality

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E05-16		
Field No.	PR 50316 Ba	Date First Observed	5/03/2016
Location First Observed	Horsehose Cove, Biddeford, ME 43° 24.9' N, 70° 23.2' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Stranding
Species	Minke	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

## GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		5/05/2016	Gear Retrieved By		NOAA OLE
Date Gear Received		N/A	Received From		N/A
Sources:	USCG		Date Set		Unknown
	CCS		Date Lost		Unknown
	Fisherman	Interview	Location		Unknown
	Other		Depth		Unknown
			Bottom Type		Unknown
Gear Type:	Lobster trap		Target Species:		Lobster
<u>Gear Description:</u> Two bullet buoys with 600 lbs. swivel weak links attached to 20 fathoms of 3/8” sink line and 8 fathom of float line.					
<u>Comments:</u> Gear was in compliance.					
<u>Conclusions:</u> Animal entangled in multiple trap trawl of Maine lobster gear.					
Report By:	Glenn Salvador	Date:	3/30/2018	Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E06-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	5/09/2016
<b>Species</b>	Unknown
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	0.3 NM northeast of North Truro, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 03.4'N 70° 04.5'W
<b>Event Description</b>	A land-based observer noticed a whale towing an orange buoy swimming just offshore. Photographs were acquired but the quality prevented identifying the species. It is possible this could be the first sighting of E09-16 case.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Orange buoy seen trailing close to the tail of the whale.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted.
<b>B. Subsequent Descriptions</b>	None noted.
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown sex and age
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced prorated injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	<b>E06-16</b>		
Field No.	PR 50916 Unk	Date First Observed	5/09/2016
Location First Observed	0.3 NM northeast of North Truro, MA 42° 03.4' N, 70° 04.5' 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		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set		Unknown	
	CCS			Date Lost		Unknown	
	Fisherman			Location		Unknown	
	Other	Photo documentation	Depth		Unknown		
			Bottom Type		Unknown		
Gear Type:		Unknown		Target Species:		Unknown	
<u>Gear Description:</u> Orange polyball seen trailing behind the animal.							
<u>Comments:</u> None.							
<u>Conclusions:</u> Buoy and endline of unknown origin seen trailing the whale.							
Report By:	Glenn Salvador	Date:	3/30/2018	Current Location of Gear	N/A		

<b>NMFS No.</b>	<b>E07-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Entangled
<b>Date First Observed Entangled</b>	5/11/2016
<b>Species</b>	Sei
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	29.9 NM east of Portsmouth, NH
<b>Latitude/Longitude First Observed Entangled</b>	43° 00.8'N 70° 01.7'W
<b>Event Description</b>	NEFSC research team documented and reported the entangled whale. CCS responded and found the whale had a closed loop plastic strap around the top jaw. Several attempts were made to cut the strap but the team was unable to make the cut due to the evasive animal.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Plastic strap around the top jaw.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown sex and age
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E07-16		
Field No.	PR 51116 Bb	Date First Observed	5/11/2016
Location First Observed	29.9 NM east of Portsmouth, NH 43° 00.8' N, 70° 01.7' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Sei	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set	Unknown		
	CCS			Date Lost	Unknown		
	Fisherman			Location	Unknown		
	Other	NEFSC - photographs	Depth	Unknown			
			Bottom Type	Unknown			
Gear Type:	Unknown			Target Species:	Unknown		
<u>Gear Description:</u> A plastic strap of unknown origin.							
<u>Comments:</u> None.							
<u>Conclusions:</u> A plastic strap of unknown origin not associated with commercial fishing.							
Report By:	Glenn Salvador	Date:	3/30/2018	Current Location of Gear	N/A		

<b>NMFS No.</b>	<b>E08-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Disentangled
<b>Date First Observed Entangled</b>	5/14/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	GOM #1609
<b>Location First Observed Entangled</b>	0.5 NM southwest of Wood End, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 01.0'N 70° 11.9'W
<b>Event Description</b>	A recreational boater reported the entangled whale. CCS responded and found the small whale effectively anchored by the entanglement. The team managed to cut and remove almost all the gear from the whale except for a small piece of line, which the team expected the whale to shed. A local WW saw the animal earlier in the day gear free.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting both sides of the mouth leading below the animal and twisting together. The right flipper was fouled, but not wrapped, with the end of the buoy line.
<b>B. Subsequent Descriptions</b>	No gear present.
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Entanglement trauma over the body.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	5/14/2016
<b>Re-sightings Post-entanglement</b>	1/12/2017 - deceased
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury



## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E08-16		
Field No.	PR 51416 Mn	Date First Observed	5/14/2016
Location First Observed	0.5 NM southwest of Wood End, Provincetown, MA 42° 01.0' N, 70° 11.9' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		5/14/2016	Gear Retrieved By		CCS	
Date Gear Received		6/08/2016	Received From		CCS	
Sources:	USCG		Date Set		5/07/2016	
	CCS	Photos and recovered gear	Date Lost		5/14/2016	
	Fisherman	Interview	Location		0.2 NM further from entangled whale location	
	Other		Depth		45 feet	
			Bottom Type		Sand	
Gear Type:		Lobster trap	Target Species:		Lobster	
<u>Gear Description:</u> Bullet buoy with 6 fathoms of 3/8” sink line coming from 600 lbs swivel weak link. Gear is compliant with ALWTRP.						
<u>Comments:</u> Animal entangled in multiple trap trawl of lobster gear.						
<u>Conclusions:</u> Animal entangled in endline of multiple trap trawl. Trawl was in compliance with ALWTRP.						
Report By:		Glenn Salvador	Date:	3/30/2018	Current Location of Gear	Narragansett Lab, RI

<b>NMFS No.</b>	<b>E09-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	5/18/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Foggy
<b>Location First Observed Entangled</b>	7.58 NM northeast of Gloucester, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 38.4'N 70° 30.9'W
<b>Event Description</b>	<p>5/09/2016</p> <ul style="list-style-type: none"> <li>It is possible E06-16 on 5/09/2016 is the first sighting of this case, but poor quality photographs are unable to confirm.</li> </ul> <p>5/18/2016</p> <ul style="list-style-type: none"> <li>A local fisherman reported the entangled whale and stood by for four hours while poor weather hampered a response from CCS. Upon arrival the team noted recent deep lacerations on the body. The whale also had lines coming out of the mouth and a polyball involved with this portion of the entanglement. Eventually it was surmised the free-swimming whale likely had the mouth entanglement with heavy gear and was dragging the gear along. This heavy unknown gear even snagged into some local gear, which effectively anchored it. The team managed to remove a large portion of the gear including the polyball and left two bitter ends of line exiting the mouth, which was thought would later be shed.</li> </ul> <p>6/14/2016, 6/30/2016, 7/17/2016, 7/20/2016</p> <ul style="list-style-type: none"> <li>Whale seen by local WW up in the Bay of Fundy with a relatively loose wrap over the back. It was clear the entanglement was also much more involved and unknown and intervention was still necessary. No response was possible.</li> </ul> <p>7/25/2016</p> <ul style="list-style-type: none"> <li>CWRT, DFO and a local fisherman in coordination with local WW relocated the animal and attempted a disentanglement. The overall health of the animal had noticeably declined. It appears the bitter ends left on the May 18<sup>th</sup> attempt twisted together forming another bridle preventing the whale from shedding the gear. Despite working until sunset, the whale evaded all attempts to cut the wrap.</li> </ul>

<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting both sides of the mouth leading off the right flank in a twist of lines down to anchoring gear. Twisted lines from the right flank led up to a polyball.
<b>B. Subsequent Descriptions</b>	Lines exiting both sides of the mouth twisting together over the back.
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Severe embedded entanglement trauma on various portions of the body.
<b>B. Subsequent Descriptions</b>	Entanglement trauma still present with gradual worsening overall condition and loss of body fat.
<b>Sighting prior to entanglement</b>	8/29/2015
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Adult female
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced serious injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E09-16		
Field No.	PR 51816 Mn	Date First Observed	5/18/2016
Location First Observed	7.58 NM northeast of Gloucester, MA 42° 38.4' N, 70° 30.9' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Foggy	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	5/18/2016	Gear Retrieved By	CCS
Date Gear Received	6/08/2016	Received From	CCS
Sources:	USCG		Date Set
	CCS	Photos and recovered gear	Date Lost
	Fisherman		Location
	Other		Depth
			Bottom Type
Gear Type:	Unknown	Target Species:	Unknown
<p><u>Gear Description:</u> Multiple sets of LD-3 and LD-2 and bullet buoys. LD-3 and LD-2 sets were non-compliant with the ALWTRP, but the country of origin is unknown. Two of the bullet buoys traced back to a Massachusetts U.S. lobsterman and were compliant with ALWTRP. Approximately 25 fathom of 5/8" sink line was associated with the LD-3 buoy. One fathom 7/16" line was associated with a 600 lbs. swivel weak link.</p>			
<p><u>Comments:</u> Multiple pieces of gear were involved that were non-compliant under the ALWTRP; however, the country of origin is unknown. One section of gear was identified by the buoy as coming from a MA U.S. lobsterman and that gear was compliant.</p>			
<p><u>Conclusions:</u> Multiple sets of gear were involved. Based on the description from the CCS responders, the gear of unknown origin with the LD-3 and LD-2 buoys were the original portion of the entanglement, which dragged into the Massachusetts lobster gear.</p>			
Report By:	Glenn Salvador	Date:	3/30/2018
		Current Location of Gear	Narragansett, RI, NOAA

<b>NMFS No.</b>	<b>E10-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	5/21/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Not identifiable
<b>Location First Observed Entangled</b>	0.4 NM east of Mantoloking, NJ
<b>Latitude/Longitude First Observed Entangled</b>	40° 02.0'N 74° 02.5'W
<b>Event Description</b>	A recreational boater reported and described the whale as being wrapped up in gillnet. Numerous attempts made urging the mariners to stand clear while the USCG was en-route, despite the warnings the mariners started removing gear. When the USCG arrived, the attempt was still underway and the USCG documented that at least some gear including line and mesh still remained in the mouth. The exact entanglement configuration was unknown. At least one of the mariners during their unauthorized attempt was injured and they were heading back to shore for a hospital visit.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Unknown. Described as being wrapped up in gillnet with no endlines visible.
<b>B. Subsequent Descriptions</b>	Line and mesh still visible in the mouth, although exact configuration was unknown.
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	Unknown
<b>Life History Information</b>	Unknown sex and age
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced prorated injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E10-16		
Field No.	PR 5/21/16 Mn	Date First Observed	5/21/2016
Location First Observed	0.4 NM east of Mantoloking, NJ 40° 02.0' N, 74° 02.5' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	N/A	Gear Retrieved By	N/A
Date Gear Received	N/A	Received From	N/A
Sources:	USCG	Date Set	Unknown
	CCS	Date Lost	Unknown
	Fisherman	Location	Unknown
	Other	Depth	Unknown
		Bottom Type	Unknown
Gear Type:	Sink gillnet	Target Species:	Unknown
<u>Gear Description:</u> Leadline, floatline and monofilament mesh wrapped around the body and head of the whale.			
<u>Comments:</u> A recreational boater reported the animal and USCG responded to document. Unauthorized ad-hoc disentanglement was attempted and at least one person was injured which required a hospital visit. Outcome of operation was unknown.			
<u>Conclusions:</u> Whale wrapped in leadline, floatline and monofilament mesh of at least one portion of one panel of sink gillnet.			
Report By:	Glenn Salvador	Date:	4/02/2018
		Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E11-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Disentangled
<b>Date First Observed Entangled</b>	5/26/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	GOM #1552
<b>Location First Observed Entangled</b>	1.5 NM southeast of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 02.4'N 70° 13.9'W
<b>Event Description</b>	Land based observers noticed the whale thrashing just offshore and reported the whale. CCS responded and with the help of a local fisherman and harbormaster the team managed to remove all of the gear.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line wrapped around the tailstock and both blades of the fluke. One short bitter end led from the fluke and another terminated about 100' beyond. A bullet buoy and weak link were on the dorsal portion of the fluke.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Active bleeding wounds on the fluke but the overall condition was fair.
<b>B. Subsequent Descriptions</b>	
<b>Sighting prior to entanglement</b>	11/11/2015
<b>Re-sightings Post-entanglement</b>	5/26/2016
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E11-16		
Field No.	PR 52616 Mn	Date First Observed	5/26/2016
Location First Observed	1.5 NM southeast of Race Point, Provincetown, MA 42° 02.4' N, 70° 13.9' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

## GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		5/26/2016	Gear Retrieved By	CCS	
Date Gear Received		6/08/2016	Received From	CCS	
Sources:	USCG		Date Set	Unknown	
	CCS	Photo documentation and gear recovery	Date Lost	Unknown	
	Fisherman		Location	Unknown	
	Other		Depth	Unknown	
			Bottom Type	Unknown	
Gear Type:	Unknown trap/pot		Target Species:	Unknown	
<u>Gear Description:</u> 23 fathoms of 3/8” sink line attached to a 600 LBS weak link. A ALWTRP red and either black or blue mark was found on the line indicating either RI state exempt or MA state in LMA2.					
<u>Comments:</u> A buoy stick seen in photographs but not recovered.					
<u>Conclusions:</u> Whale entangled in the endline and surface buoy of a U.S. unknown trap/pot gear.					
Report By:	Glenn Salvador	Date:	4/02/2018	Current Location of Gear	N/A



<b>NMFS No.</b>	<b>E12-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Gear shed
<b>Date First Observed Entangled</b>	6/16/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Freckles
<b>Location First Observed Entangled</b>	3.4 NM east of Wellfleet, MA
<b>Latitude/Longitude First Observed Entangled</b>	41° 54.6'N 69° 53.6'W
<b>Event Description</b>	<p>6/16/2016</p> <ul style="list-style-type: none"> <li>CCS research group with a disentanglement staff on-board located the whale and attempted to attach a control line to begin disentanglement operations. The whale was very mobile and moving among many other animals in the area. All attempts were unsuccessful.</li> </ul> <p>7/26/2016</p> <ul style="list-style-type: none"> <li>WW documented the whale had shed the gear.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	A bullet buoy was trailing about 60 feet beyond the flukes with an attachment point near the forward part of the body.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Overall body condition was poor.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	8/02/2015
<b>Re-sightings Post-entanglement</b>	7/26/2016
<b>Life History Information</b>	Adult female
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E12-16		
Field No.	PR 61616 Mn	Date First Observed	6/16/2016
Location First Observed	3.4 NM east of Wellfleet, MA 41° 54.6'N 69° 53.6'W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Freckles	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set		Unknown	
	CCS	Photographs		Date Lost		Unknown	
	Fisherman			Location		Unknown	
	Other			Depth		Unknown	
				Bottom Type		Unknown	
Gear Type:	Unknown			Target Species:		Unknown	
<p><u>Gear Description:</u> A single surface buoy and endline.</p>							
<p><u>Comments:</u> None.</p>							
<p><u>Conclusions:</u> Whale was trailing surface buoy about 60 feet behind the tail with an unknown attachment point. Origin of gear is unknown.</p>							
Report By:	Glenn Salvador	Date:	4/02/2018	Current Location of Gear	N/A		

<b>NMFS No.</b>	<b>E13-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Partial disentanglement - entangled
<b>Date First Observed Entangled</b>	6/18/2016
<b>Species</b>	Finback
<b>Individual ID</b>	CCS #1308
<b>Location First Observed Entangled</b>	2.3 NM northeast of Truro, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 3'N 70° 00'W
<b>Event Description</b>	<p>6/18/2016</p> <ul style="list-style-type: none"> <li>A number of people participating in a fishing derby noticed the whale towing a buoy for a few quick sightings before being lost. The report was not relayed immediately so no response was undertaken.</li> </ul> <p>6/22/2016</p> <ul style="list-style-type: none"> <li>A tuna spotter reported the animal to CCS who was in the area conducting other whale research. The disentanglement team responded, with stand-by help from USCG and MEP. The animal had line exiting both sides of the mouth leading to two bullet buoys trailing about 100 feet behind. The team managed to attach a control line three times leading to an accelerated travel rate from the whale. This led to line breaking away and both buoys removed. Line remained exiting both sides of the mouth with bitter ends.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting both sides of the mouth, twisting together to form a bridle which led to two bullet buoys trailing about 100 feet behind the whale.
<b>B. Subsequent Descriptions</b>	Line exiting both sides of the mouth with bitter ends trailing. No buoys present.
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None

<b>Sighting prior to entanglement</b>	October 2015
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E13-16		
Field No.	PR 61816 Bp	Date First Observed	6/18/2016
Location First Observed	2.3 NM northeast of Truro, MA 42° 03' N, 70° 00' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentangled
Species	Finback	Gear Recovered (y/n)	Yes
Individual ID	CCS #1308	Gear Analysis Conducted (y/n)	Yes

## GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		6/18/2016	Gear Retrieved By		CCS
Date Gear Received		8/25/2016	Received From		CCS
Sources:	USCG		Date Set		Unknown
	CCS	Photographs and gear retrieval	Date Lost		Unknown
	Fisherman		Location		Off Friendship, ME
	Other		Depth		Unknown
			Bottom Type		Unknown
Gear Type:		Lobster Trap/pot	Target Species:		Lobster
<u>Gear Description:</u> Surface buoy and toggle buoy attached to 108’ of 3/8” line. Surface buoy attached to required ALWTRP 600 lbs. weak link.					
<u>Comments:</u> Gear was set in an unknown exempted waters location off Friendship, ME.					
<u>Conclusions:</u> Animal entangled in endline and surface system from ME lobster gear.					
Report By:	Glenn Salvador	Date:	4/02/2018	Current Location of Gear	Narragansett RI, NOAA

<b>NMFS No.</b>	<b>E14-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Gear shed
<b>Date First Observed Entangled</b>	7/02/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	2016 calf of Twine
<b>Location First Observed Entangled</b>	9.9 NM north of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 13.7'N 70° 14.7'W
<b>Event Description</b>	<p>7/02/2016</p> <ul style="list-style-type: none"> <li>A number of WW vessels noticed during post-trip analysis that a red fishing lure was on its belly.</li> </ul> <p>7/03/2016</p> <ul style="list-style-type: none"> <li>Whale was seen gear free.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Red fishing lure on belly.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	7/01/2016
<b>Re-sightings Post-entanglement</b>	7/03/2016
<b>Life History Information</b>	Male calf
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E14-16		
Field No.	PR 70216 Mn	Date First Observed	7/02/2016
Location First Observed	9.9 NM north of Race Point, Provincetown, MA 42° 13.7' N, 70° 14.7' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	2016 calf of Twine	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set		Unknown	
	CCS			Date Lost		Unknown	
	Fisherman			Location		Unknown	
	Other	Photographs		Depth		Unknown	
				Bottom Type		Unknown	
Gear Type:		Recreational fishing gear		Target Species:		Unknown	
<u>Gear Description:</u> A recreational fishing lure was visible on the body of the whale.							
<u>Comments:</u> None.							
<u>Conclusions:</u> A recreational fishing lure was visible on the body of the whale.							
Report By:	Glenn Salvador	Date:	4/02/2018	Current Location of Gear	N/A		

<b>NMFS No.</b>	<b>E15-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Partial disentanglement - entangled
<b>Date First Observed Entangled</b>	7/05/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	2.4 NM southeast of Chatham, MA
<b>Latitude/Longitude First Observed Entangled</b>	41° 38.2'N 69° 54.2'W
<b>Event Description</b>	<p>7/05/2016</p> <ul style="list-style-type: none"> <li>A commercial fisherman reported the whale and stood by with assistance from the USCG, while CCS responded. Once the team arrived, they found a whale that appeared otherwise healthy except for severe embedded entanglement trauma around the tail and a colorless and limp fluke. The lines were so tight and deeply embedded the team struggled to remove the gear. The team attached a telemetry buoy for an attempt the following day.</li> </ul> <p>7/06/2016</p> <ul style="list-style-type: none"> <li>The team relocated the whale in the morning and finally managed to cut a portion of the line embedded on the tail, leaving two small bitter ends. The line remaining was also partially cut by numerous attempts so it is hoped to whale could part/shed the remaining portion on its own.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Heavy line severely embedded on tailstock near the base of the fluke. One line led from the tailstock to a large low-drag buoy about 50 feet behind and another line led to a bitter end.
<b>B. Subsequent Descriptions</b>	Two wraps around the tailstock remained with short bitter ends.
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Overall body condition was normal. Severe embedded entanglement trauma on tailstock just near the base of the fluke. Fluke lost all coloration and was limp.
<b>B. Subsequent Descriptions</b>	Same as first sighting.
<b>Sighting prior to entanglement</b>	None



<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced serious injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E15-16		
Field No.	PR 70516 Mn	Date First Observed	7/05/2016
Location First Observed	2.4 NM southeast of Chatham, MA 41° 38.2' N, 69° 54.2' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		7/06/2016	Gear Retrieved By		CCS	
Date Gear Received		8/25/2016	Received From		CCS	
Sources:	USCG		Date Set		Unknown	
	CCS	Photographs and recovered gear	Date Lost		Unknown	
	Fisherman		Location		Unknown	
	Other		Depth		Unknown	
			Bottom Type		Unknown	
Gear Type:		Unknown		Target Species:	Unknown	
<u>Gear Description:</u> Six lengths of 7/8” line recovered of 102’ total. Multiple knots in line and no weak link present. Oblong polyball that appeared brand new with no markings.						
<u>Comments:</u> Polyball appears brand new. Gear would be non-compliant if it was a U.S. fishery set in a non-exempted area. No buoy markings or weak links present.						
<u>Conclusions:</u> Surface system and line is of unknown origin.						
Report By:		Glenn Salvador	Date:	4/02/2018	Current Location of Gear	Narragansett, RI

<b>NMFS No.</b>	<b>E16-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	7/06/2016
<b>Species</b>	Finback
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	32.5 NM east of Truro, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 02.5'N 69° 20.4'W
<b>Event Description</b>	A tuna spotter reported the whale traveling with about 60 feet of line trailing behind the animal. No response as CCS was already responding to another case.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line seen trailing about 60 feet behind the whale with an unknown attachment point.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	None
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced prorated injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	<b>E16-16</b>		
Field No.	PR 70616 Bp	Date First Observed	7/06/2016
Location First Observed	32.5 NM east of Truro, MA 42° 02.5' N, 69° 20.4' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Finback	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A	Gear Retrieved By		N/A
Date Gear Received		N/A	Received From		N/A
Sources:	USCG		Date Set		Unknown
	CCS		Date Lost		Unknown
	Fisherman		Location		Unknown
	Other	Tuna spotter - photographs	Depth		Unknown
			Bottom Type		Unknown
Gear Type:	Unknown		Target Species:		Unknown
<u>Gear Description:</u> Photographs show approximately 60' of line trailing.					
<u>Comments:</u> None.					
<u>Conclusions:</u> Line is of unknown origin.					
Report By:	Glenn Salvador	Date:	4/02/2018	Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E17-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	7/08/2016
<b>Species</b>	Finback
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	60 NM northeast of Virginia Beach, VA
<b>Latitude/Longitude First Observed Entangled</b>	37° 14.8'N 74° 49.8'W
<b>Event Description</b>	UNC-W aerial survey documented the whale traveling with a lure rig and monofilament line on the left flank of the whale. No response was undertaken.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Lure rig and monofilament line seen on the left flank of the whale.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	None
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced prorated injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E17-16		
Field No.	PR 70816 Bp	Date First Observed	7/08/2016
Location First Observed	60 NM northeast of Virginia Beach, VA 37° 14.8' N, 74° 49.8' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Finback	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set		Unknown	
	CCS			Date Lost		Unknown	
	Fisherman			Location		Unknown	
	Other			Depth		Unknown	
				Bottom Type		Unknown	
Gear Type:		Unknown		Target Species:		Unknown	
<u>Gear Description:</u> Monofilament line and lure rig is of unknown origin.							
<u>Comments:</u> None.							
<u>Conclusions:</u> Monofilament line and lure rig of unknown origin.							
Report By:		Glenn Salvador		Date:		4/02/2018	
				Current Location of Gear		N/A	

<b>NMFS No.</b>	<b>E18-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Gear shed
<b>Date First Observed Entangled</b>	7/26/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Scratch
<b>Location First Observed Entangled</b>	9.9 NM northeast of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 12.7'N 70° 08.8'W
<b>Event Description</b>	<p>7/26/2016</p> <ul style="list-style-type: none"> <li>WW vessel documented the whale with green line visible on the body. CCS responded and despite having aide from other WW vessels, they were unable to relocate the whale.</li> </ul> <p>7/29/2016</p> <ul style="list-style-type: none"> <li>The whale was sighted with no gear visible.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Green line visible on the body.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	6/30/2016
<b>Re-sightings Post-entanglement</b>	7/29/2016
<b>Life History Information</b>	Adult female
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	<b>E18-16</b>		
Field No.	PR 72616 Mn	Date First Observed	7/26/2016
Location First Observed	9.9 NM northeast of Race Point, Provincetown, MA 41° 44.43' N, 69° 37.68' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Scratch	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	N/A	Gear Retrieved By	N/A
Date Gear Received	N/A	Received From	N/A
Sources:	USCG	Date Set	Unknown
	CCS	Date Lost	Unknown
	Fisherman	Location	Unknown
	Other	Depth	Unknown
		Bottom Type	Unknown
Gear Type:	Unknown	Target Species:	Unknown
<u>Gear Description:</u> Green line visible in photographs.			
<u>Comments:</u> Attachment point and full entanglement configuration is unknown.			
<u>Conclusions:</u> Line is of unknown origin.			
Report By:	Glenn Salvador	Date:	4/02/2018
		Current Location of Gear	N/A



<b>NMFS No.</b>	<b>E19-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Disentangled
<b>Date First Observed Entangled</b>	7/27/2016
<b>Species</b>	Finback
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	17 NM north of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 20.7'N 70° 11.6'W
<b>Event Description</b>	During a CCS response to document an injured whale, they noticed a small bullet buoy traveling slowly against the current. As they approached the buoy, they realized it was attached to the whale by a line coming out of the left side of the mouth. They quickly added a control line and floatation, which the whale quickly submerged. Minutes later their floatation was found with the entangling gear still attached. The team believes all the gear was recovered.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting the left side of the mouth and terminating at a bullet buoy.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Significant but healing entanglement trauma on the tailstock. Necrotic tissue recovered from the entangling line suggesting the mouth also had an injury.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E19-16		
Field No.	PR 72716 Bp	Date First Observed	8/14/2015
Location First Observed	17 NM north of Race Point, Provincetown, MA 42° 20.7' N, 70° 11.6' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Finback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		7/27/2016	Gear Retrieved By	CCS	
Date Gear Received		8/25/2016	Received From	CCS	
Sources:	USCG		Date Set	Unknown	
	CCS	Photo documentation and gear recovered	Date Lost	Unknown	
	Fisherman		Location	Unknown	
	Other		Depth	Unknown	
			Bottom Type	Unknown	
Gear Type:	Unknown U.S. Trap/Pot		Target Species:	Unknown	
<u>Gear Description:</u> 210' of sinking 3/8" line recovered with red zip tie indicating northern nearshore/inshore trap/pot fishery. Surface system has only pickup buoy present and tide buoy was missing. Pickup buoy was unmarked.					
<u>Comments:</u> Unmarked pickup buoy was not in compliance with ALWTRP regulations, if origin was from non-exempted waters.					
<u>Conclusions:</u> Whale was entangled surface system and endline of gear of U.S. nearshore/inshore trap/pot fishery.					
Report By:	Glenn Salvador	Date:	4/02/2018	Current Location of Gear	Narragansett, RI NOAA

<b>NMFS No.</b>	<b>E20-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Disentangled
<b>Date First Observed Entangled</b>	8/08/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	4.9 NM northeast of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 06.8'N 70° 09.5'W
<b>Event Description</b>	A charter vessel documented and reported the entangled whale to CCS. Local WW helped stand-by while CCS was en-route and upon arrival found the anchored whale. The team managed to cut free the anchoring gear leaving a small portion of line left in the mouth that was expected to be shed.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting the right side of the mouth leading to a bitter end that terminated near the flipper. Line exited the left side of the mouth that led down to the unknown anchoring gear. A line then led from that anchoring gear up to the buoy, which was associated with the entanglement.
<b>B. Subsequent Descriptions</b>	Small piece of line left in the mouth.
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E20-16		
Field No.	PR 80816 Mn	Date First Observed	8/08/2016
Location First Observed	4.9 NM northeast of Race Point, Provincetown, MA 42° 06.8' N, 70° 09.5' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		8/08/2016	Gear Retrieved By	CCS	
Date Gear Received			Received From	CCS	
Sources:	USCG		Date Set	Unknown	
	CCS	Photo documentation and gear recovered.	Date Lost	Unknown	
	Fisherman		Location	Unknown	
	Other		Depth	Unknown	
			Bottom Type	Unknown	
Gear Type:	Unknown U.S. trap/pot		Target Species:	Unknown	
<u>Gear Description:</u> Low-drag polyball, weak link and endline visible in photographs. No markings present on polyball of unknown origin.					
<u>Comments:</u> Low-drag polyball with unknown breaking strength weak link led down to anchoring or weighted gear. The endline led down to the anchoring gear, which then led up to the whale. CSS observed underwater a ALWTRP color mark but could not determine the exact color due to diffusing light.					
<u>Conclusions:</u> Whale entangled in groundline of an unknown U.S. trap/pot fishery.					
Report By:	Glenn Salvador	Date:	4/02/201	Current Location of Gear	N/A

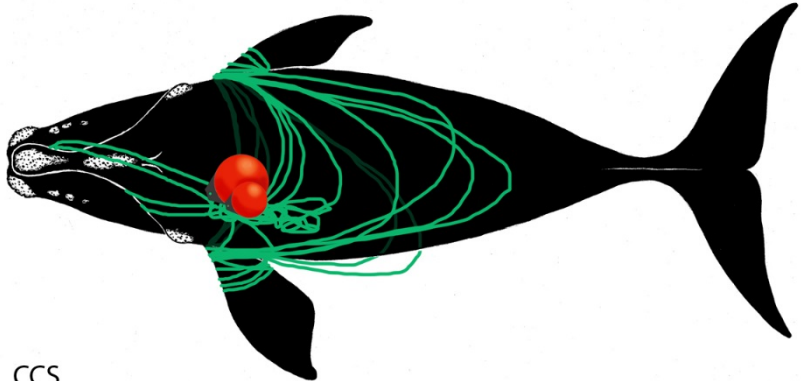
<b>NMFS No.</b>	<b>E21-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Disentangled
<b>Date First Observed Entangled</b>	8/09/2016
<b>Species</b>	Minke
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	4.4 NM south of Matinicus Island, ME
<b>Latitude/Longitude First Observed Entangled</b>	43° 44.8'N 68° 53.5'W
<b>Event Description</b>	A commercial fisherman came across the anchored whale. While MMP was responding another fisherman initiated an ad-hoc disentangling and cut one of the lines releasing the whale. They believed all gear was removed.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting both sides of the mouth and then twisting together.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	Unknown
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E21-16		
Field No.	PR 80916 Ba	Date First Observed	8/09/2016
Location First Observed	4.4 NM south of Matinicus Island, ME 43° 44.8' N, 68° 53.5' 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	8/09/2016	Gear Retrieved By	Commercial fisherman
Date Gear Received	Unknown	Received From	Unknown
Sources:	USCG	Date Set	Unknown
	CCS	Date Lost	Unknown
	Fisherman	Location	
	Other	Depth	Unknown
		Bottom Type	Unknown
Gear Type:	Lobster Trap/Pot	Target Species:	Lobster
<u>Gear Description:</u> Hard plastic buoy attached to 78' of 3/8" endline with compliant 600 LBS weak link and red ALWTRP mark indicating nearshore/inshore trap pot.			
<u>Comments:</u> Fisherman stated he believed the whale was entangled in a two trap trawl.			
<u>Conclusions:</u> Whale was entangled in the endline of a two trap lobster trawl set off the mid-coast ME state waters. Gear was in compliance with ALWTRP.			
Report By:	Glenn Salvador	Date:	4/02/2018
		Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E22-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Partial disentanglement - entangled
<b>Date First Observed Entangled</b>	8/13/2016
<b>Species</b>	Right
<b>Individual ID</b>	#4057, FDR
<b>Location First Observed Entangled</b>	3.25 NM east of Grand Manan Island, Canada
<b>Latitude/Longitude First Observed Entangled</b>	44° 37'N 66° 37'W
<b>Event Description</b>	GMWSRS found a severely entangled whale in the morning and reported the animal. CWR responded and with help from NEAq, DFO and MARS after exhaustive efforts managed to remove a significant portion of the gear. The whale left with some lines in the mouth and some loose wraps around the right flipper.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Multiple lines exiting to the mouth. Multiple wraps around the left and right flippers along with multiple loops and tangles of line over the back. Two polyballs tangled up in the lines on the back.
<b>B. Subsequent Descriptions</b>	Multiple lines in the mouth and relatively loose lines on the right flipper.
<b>C. Diagram of Entangling Gear on Whale</b>	 <p>CCS</p>
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Embedded entanglement trauma on the flippers. Multiple sights of abrasion on various parts of the body. Significant cyanid coverage of the skin and overall poor condition.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Yes, consult right whale consortium

<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Juvenile male
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced serious injury



## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E22-16		
Field No.	PR 81316 Eg	Date First Observed	8/13/2016
Location First Observed	3.25 NM east of Grand Manan Island, Canada 44° 37' N, 66° 37' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Right	Gear Recovered (y/n)	Yes
Individual ID	#4057, FDR	Gear Analysis Conducted (y/n)	Yes, DFO

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		8/13/2016		Gear Retrieved By		CWR	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set		Unknown	
	CCS			Date Lost		Unknown	
	Fisherman			Location		Unknown	
	Other	Photographs	Depth		Unknown		
			Bottom Type		Unknown		
Gear Type:		Canadian snow crab		Target Species:		Canadian snow crab	
<u>Gear Description:</u> Surface system containing two different size polyballs and associated endline of at least ½” or greater.							
<u>Comments:</u> Gear retained and analysis was done by DFO.							
<u>Conclusions:</u> DFO stated it was Canadian snow crab gear.							
Report By:		Glenn Salvador		Date:		4/04/2018	
				Current Location of Gear		N/A	

<b>NMFS No.</b>	<b>E23-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Disentangled
<b>Date First Observed Entangled</b>	8/14/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Storm (with calf)
<b>Location First Observed Entangled</b>	10.1 NM north of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 13.8'N 70° 13.6'W
<b>Event Description</b>	WW vessel and in coordination with other WW vessels in the area stood by while CCS responded. The entanglement was relatively simple with a single line exiting both sides of the mouth. Normally, this case would be monitored and the whale would likely shed the gear on its own; however, with a calf present the team felt removing the line was the safest course of action for the calf. The team added floatation and eventually the line pulled free.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting the right side of the mouth and terminating near the flipper. Line was also exiting the left side of the mouth and terminated about 90 feet beyond the fluke.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	7/27/2016
<b>Re-sightings Post-entanglement</b>	8/14/2016
<b>Life History Information</b>	Adult female with calf
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E23-16		
Field No.	PR 81416 Mn	Date First Observed	8/14/2016
Location First Observed	10.1 NM north of Race Point, Provincetown, MA 42° 13.8' N, 70° 13.6' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Storm	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

GEAR DESCRIPTION / ANALYSIS					
Date Gear Retrieved		8/14/2016		Gear Retrieved By	CCS
Date Gear Received		8/25/2016		Received From	CCS
Sources:	USCG			Date Set	Unknown
	CCS	Photographs and gear recovery.		Date Lost	Unknown
	Fisherman			Location	Unknown
	Other			Depth	Unknown
				Bottom Type	Unknown
Gear Type:	Single lobster trap/pot			Target Species:	Lobster
<u>Gear Description:</u> Recovered three pieces of sinking and floating 3/8” line totaling 148’. Line was marked with red and yellow twine, indicating by the ALWTRP that it was for a single trap in Outer Cape exempted area. Line was also marked with red spray paint in three distinct locations (possibly from old marking ALWTRP scheme).					
<u>Comments:</u> Stand-by vessel witnessed surface buoy break off while CCS was en-route. No buoys or weak links recovered.					
<u>Conclusions:</u> Recovered marked line had red and yellow twine indicating gear was originally set in Outer Cape single trap exempted area.					
Report By:	Glenn Salvador	Date:	4/04/2018	Current Location of Gear	Narragansett, RI NOAA

<b>NMFS No.</b>	<b>E24-16</b>
<b>Initial Status</b>	Dead
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Deceased
<b>Date First Observed Entangled</b>	8/15/2016
<b>Species</b>	Minke
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	2.0 NM southeast of Seguin Island, ME
<b>Latitude/Longitude First Observed Entangled</b>	43° 41.1'N 69° 43.1'W
<b>Event Description</b>	A USCG cutter documented and reported the entangled carcass. Marine Mammals of Maine relocated the carcass and acquired further documentation. No gear recovered and no ID marks were visible.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting the mouth. One line terminating at a frayed end about 4' away. The other line sank below to an unknown weight.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Moderate decomposition, shark predation and entanglement trauma on tailstock.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced mortality

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E24-16		
Field No.	PR 81516 Ba	Date First Observed	8/15/2016
Location First Observed	2.0 NM southeast of Seguin Island, ME 43° 41.1' N, 69° 43.1' 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

GEAR DESCRIPTION / ANALYSIS					
Date Gear Retrieved		N/A		Gear Retrieved By	N/A
Date Gear Received		N/A		Received From	N/A
Sources:	USCG	Photographs		Date Set	Unknown
	CCS			Date Lost	Unknown
	Fisherman			Location	Unknown
	Other	Photographs from Marine Mammals of Maine	Depth	Unknown	
			Bottom Type	Unknown	
Gear Type:	Unknown			Target Species:	Unknown
<u>Gear Description:</u> Photographs show two lines extended to depth from carcass.					
<u>Comments:</u> No gear recovered.					
<u>Conclusions:</u> Line of unknown origin.					
Report By:	Glenn Salvador	Date:	4/04/2018	Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E25-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Disentangled
<b>Date First Observed Entangled</b>	8/15/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Victim (with calf)
<b>Location First Observed Entangled</b>	21.5 NM south southwest of Grand Manan Island, NB
<b>Latitude/Longitude First Observed Entangled</b>	44° 15.5'N 67° 03.5'W
<b>Event Description</b>	<p>8/15/2016</p> <ul style="list-style-type: none"> <li>Commercial fisherman reported the whale was entangled in his gear. No response undertaken due to the time of day.</li> </ul> <p>8/16/2016</p> <ul style="list-style-type: none"> <li>Commercial fisherman returned to the same location and found the mother still entangled in what they described as the groundline of their gear. CWRT responded, made a single cut near the mouth, and then managed to pull the rest of the gear free. The pair quickly swam away after the disentanglement.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting both sides of the mouth and then twisting together and leading to the anchoring gear below.
<b>B. Subsequent Descriptions</b>	Same as first sighting.
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	11/04/2015
<b>Re-sightings Post-entanglement</b>	8/16/2016
<b>Life History Information</b>	Adult female with calf
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E25-16		
Field No.	PR 81516 Mn	Date First Observed	8/15/2016
Location First Observed	21.5 NM south southwest of Grand Manan Island, NB 44° 15.5' N, 67° 03.5' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Victim	Gear Analysis Conducted (y/n)	Yes

## GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	Unknown	Gear Retrieved By	Commercial fisherman
Date Gear Received	N/A	Received From	N/A
Sources:	USCG	Date Set	Unknown
	CCS	Date Lost	Unknown
	Fisherman	Location	Unknown
	Other	Photo documentation by CWRT	Depth
			Bottom Type
Gear Type:	Canadian crab Trap/pot	Target Species:	Canadian crab
<u>Gear Description:</u> Fisherman described his gear as a trawl of crab pot gear.			
<u>Comments:</u> Commercial fisherman reported the whale entangled in his gear. Fisherman assisted with disentanglement effort.			
<u>Conclusions:</u> Whale was described by fisherman as being entangled by the mouth in the groundline of his Canadian crab gear trawl.			
Report By:	Glenn Salvador	Date:	4/04/2018
		Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E26-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	8/16/2016
<b>Species</b>	Right
<b>Individual ID</b>	#1152, Necklace
<b>Location First Observed Entangled</b>	2.0 NM south of Baccaro, NS, Canada
<b>Latitude/Longitude First Observed Entangled</b>	43° 25.2'N 65° 26.9'W
<b>Event Description</b>	A person on the shore noticed a whale towing a buoy and reported it to the MARS hotline. DFO responded and documented the animal further. No disentanglement response undertaken due to the location.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Yellow buoy seen trailing behind the whale with an unknown attachment point.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	April, 2016
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Adult male
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced prorated injury



## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	<b>E26-16</b>		
Field No.	PR 81616 Eg	Date First Observed	8/16/2016
Location First Observed	2.0 NM south of Baccaro, NS, Canada 43° 25.2' N, 65° 26.9' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Right	Gear Recovered (y/n)	No
Individual ID	#1152, Necklace	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A		Gear Retrieved By		N/A					
Date Gear Received		N/A		Received From		N/A					
Sources:	USCG			Date Set		Unknown					
	CCS			Date Lost		Unknown					
	Fisherman			Location		Unknown					
	Other	Photographs - DFO		Depth		Unknown					
				Bottom Type		Unknown					
Gear Type:		Unknown		Target Species:		Unknown					
<u>Gear Description:</u> Yellow buoy seen trailing behind animal.											
<u>Comments:</u> No gear recovered.											
<u>Conclusions:</u> Whale trailing endline and surface buoy of unknown origin.											
Report By:		Glenn Salvador		Date:		4/04/2018		Current Location of Gear		N/A	

<b>NMFS No.</b>	<b>E27-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Gear shed
<b>Date First Observed Entangled</b>	8/16/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	A-plus
<b>Location First Observed Entangled</b>	30.0 NM east of Nantucket Island, MA
<b>Latitude/Longitude First Observed Entangled</b>	41° 25.8'N 69° 23.1'W
<b>Event Description</b>	<p>8/16/2016</p> <ul style="list-style-type: none"> <li>A WW vessel noted the whale surfaced just behind a trolling tuna vessel. The whale later seen with monofilament line draped over the rostrum.</li> </ul> <p>8/20/2016</p> <ul style="list-style-type: none"> <li>Whale was seen gear free.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Monofilament line seen draped over the head.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	8/08/2016
<b>Re-sightings Post-entanglement</b>	8/20/2016
<b>Life History Information</b>	Juvenile female
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E27-16		
Field No.	PR 81616 Mn	Date First Observed	8/16/2016
Location First Observed	30.0 NM east of Nantucket Island, MA 41° 25.8' N, 69° 23.1' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	A+	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set		Unknown	
	CCS			Date Lost		Unknown	
	Fisherman			Location		Unknown	
	Other			Depth		Unknown	
				Bottom Type		Unknown	
Gear Type:		Monofilament		Target Species:		Tuna	
<u>Gear Description:</u> Photographs show monofilament line.							
<u>Comments:</u> Whale witnessed interacting with gear.							
<u>Conclusions:</u> Monofilament line of U.S. origin.							
Report By:		John Higgins		Date:		8/29/2019	
				Current Location of Gear		N/A	

<b>NMFS No.</b>	<b>E28-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	8/28/2016
<b>Species</b>	Right
<b>Individual ID</b>	#2608
<b>Location First Observed Entangled</b>	5.2 NM north of Brier Island, NS, Canada
<b>Latitude/Longitude First Observed Entangled</b>	44° 22.4'N 66° 21.5'W
<b>Event Description</b>	A WW vessel documented the entangled whale in poor overall health. No response undertaken due to the time of day and distance from the local response team.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Described as heavy gauge line seen over the rostrum, right flipper, possibly the tail and at least an estimated 50 feet of line trailing.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Overall poor health. Entanglement trauma on the tailstock.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	8/01/2016 –unclear if entangled; severe entanglement trauma on fluke.
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Adult male
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced serious injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	<b>E28-16</b>		
Field No.	PR 82816 Eg	Date First Observed	8/28/2016
Location First Observed	15.2 NM north of Brier Island, NS, Canada 42° 52.2' N, 70° 30.1' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Right	Gear Recovered (y/n)	No
Individual ID	#2608	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A		Gear Retrieved By		N/A					
Date Gear Received		N/A		Received From		N/A					
Sources:	USCG			Date Set		Unknown					
	CCS			Date Lost		Unknown					
	Fisherman			Location		Unknown					
	Other	Photographs - NEAq		Depth		Unknown					
				Bottom Type		Unknown					
Gear Type:		Unknown		Target Species:		Unknown					
<u>Gear Description:</u> Photographs show line over the head.											
<u>Comments:</u> None.											
<u>Conclusions:</u> Line of unknown origin.											
Report By:		Glenn Salvador		Date:		4/04/2018		Current Location of Gear		N/A	

<b>NMFS No.</b>	<b>E29-16</b>
<b>Initial Status</b>	Dead
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Deceased
<b>Date First Observed Entangled</b>	8/30/2016
<b>Species</b>	Minke
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	3.1 NM southwest of Matinicus Island, ME
<b>Latitude/Longitude First Observed Entangled</b>	43° 50'N 69° 11'W
<b>Event Description</b>	Commercial fisherman found the deceased animal entangled in some of his gear, along with a different set. The fisherman mentioned he tended his gear earlier in the day and the animal had a foul odor. MMP responded and documented the fresh carcass. Both fisherman were identified and recovered their gear.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Pectoral flipper was wrapped and then leading over the back down to the anchoring gear.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Multiple sites of entanglement trauma. Carcass was fresh.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced serious injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E29-16		
Field No.	PR 83016 Ba	Date First Observed	8/30/2016
Location First Observed	3.1 NM southwest of Matinicus Island, ME 43° 50' N, 69° 11' 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		8/30/2016		Gear Retrieved By		Commercial fisherman	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set		Unknown	
	CCS			Date Lost		Unknown	
	Fisherman			Location		Unknown	
	Other	Photos - MMP	Depth		Unknown		
			Bottom Type		Unknown		
Gear Type:		Trap/pot		Target Species:		Lobster	
<p><u>Gear Description:</u> Animal entangled in at least two sets of lobster gear. One fisherman described his set as a pair of traps with 3/8" endline composed of a portion of sink and float line and 600 lbs. weak link at buoy.</p>							
<p><u>Comments:</u> Both fishermen were identified and recovered their gear.</p>							
<p><u>Conclusions:</u> Animal entangled in multiple sets of Maine lobster gear.</p>							
Report By:		Glenn Salvador		Date:		4/04/2018	
				Current Location of Gear		N/A	

<b>NMFS No.</b>	<b>E30-16</b>
<b>Initial Status</b>	Dead
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Deceased
<b>Date First Observed Entangled</b>	8/31/2016
<b>Species</b>	Right
<b>Individual ID</b>	#4320
<b>Location First Observed Entangled</b>	Sable Island, NS, Canada
<b>Latitude/Longitude First Observed Entangled</b>	43° 56.4'N 59° 53.0'W
<b>Event Description</b>	Heavily decomposed entangled carcass found on the beach. Acquired genetic samples led to the identification of the individual.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Extensive tight multiple wraps around the right pectoral flipper.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Skeletal carcass.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	4/09/2016
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Juvenile male
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced serious injury



## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E30-16		
Field No.	PR 83116 Eg	Date First Observed	8/31/2016
Location First Observed	Sable Island, NS, Canada 43° 56.4' N, 59° 53.0' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Right	Gear Recovered (y/n)	Yes - DFO
Individual ID	#4320	Gear Analysis Conducted (y/n)	Yes - DFO

### GEAR DESCRIPTION / ANALYSIS

GEAR DESCRIPTION / ANALYSIS					
Date Gear Retrieved		Contact DFO		Gear Retrieved By	
Date Gear Received		N/A		Received From	
Sources:	USCG			Date Set	Unknown
	CCS			Date Lost	Unknown
	Fisherman			Location	Unknown
	Other			Depth	Unknown
				Bottom Type	Unknown
Gear Type:	Canadian snow crab trap/pot		Target Species:	Canadian snow crab	
<u>Gear Description:</u> Two polyball surface system with endline.					
<u>Comments:</u> Buoys marks matched the fisherman's gear that was identified on the E22-16 right whale case.					
<u>Conclusions:</u> Whale entangled in endlines and surface system of Canadian snow crab gear.					
Report By:	Glenn Salvador	Date:	4/04/2018	Current Location of Gear	Contact DFO

<b>NMFS No.</b>	<b>E31-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	9/02/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Not identifiable
<b>Location First Observed Entangled</b>	14.9 NM southeast of Gloucester, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 24.2'N 70° 25.9'W
<b>Event Description</b>	In poor sea conditions, a naturalist aboard a WW vessel briefly noted a buoy surfacing and submerging behind the whale as it was feeding. No documentation acquired.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Buoy seen trailing behind the animal. Unknown attachment point.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	Unknown
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced prorated injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	<b>E31-16</b>		
Field No.	PR 90216 Mn	Date First Observed	9/02/2016
Location First Observed	14.9 NM southeast of Gloucester, MA 42° 24.2' N, 70° 25.9' 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		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set		Unknown	
	CCS			Date Lost		Unknown	
	Fisherman			Location		Unknown	
	Other			Depth		Unknown	
				Bottom Type		Unknown	
Gear Type:		Unknown		Target Species:		Unknown	
<u>Gear Description:</u> WW naturalist described red buoy trailing behind animal.							
<u>Comments:</u> None.							
<u>Conclusions:</u> Buoy and endline of unknown origin.							
Report By:		Glenn Salvador		Date:		4/04/2018	
				Current Location of Gear		N/A	

<b>NMFS No.</b>	<b>E32-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Gear shed
<b>Date First Observed Entangled</b>	9/15/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Echo (with calf)
<b>Location First Observed Entangled</b>	5.9 NM north of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 09.7'N 70° 13.6'W
<b>Event Description</b>	<p>9/15/2016</p> <ul style="list-style-type: none"> <li>WW vessel documented the whale trailing two bullet that were closely trailing on a line exiting from the mouth. No line seen trailing beyond the fluke.</li> </ul> <p>3/25/2017</p> <ul style="list-style-type: none"> <li>WW vessel documented the whale gear free.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting the left side of the mouth with one buoy near the pectoral flipper and the other near the dorsal fin.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	9/09/2016
<b>Re-sightings Post-entanglement</b>	3/25/2017
<b>Life History Information</b>	Adult female with calf
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E32-16		
Field No.	PR 91516 Mn	Date First Observed	9/15/2016
Location First Observed	5.9 NM north of Race Point, Provincetown, MA 42° 09.7' N, 70° 13.6' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Echo	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	N/A	Gear Retrieved By	N/A
Date Gear Received	N/A	Received From	N/A
Sources:	USCG	Date Set	9/12/2016
	CCS	Photos	Unknown
	Fisherman	Location	Unknown
	Other	Depth	110 feet
		Bottom Type	Gravel
Gear Type:	Trap/pot	Target Species:	Lobster
<p><u>Gear Description:</u> Two sets of surface buoys with associated endlines seen in photographs. Fisherman was identified and interviewed. They fish 20 trap trawls with 7/16" sinking ground line and 7/16" end lines with bottom 1/3 floating and top 2/3 sinking. 600 lbs. off the shelf weak links are also used at both the bullet and high flyer buoys.</p>			
<p><u>Comments:</u> Fisherman self-identified their gear after viewing documentation.</p>			
<p><u>Conclusions:</u> The whale was entangled in the end lines of a 20 trap lobster trawl.</p>			
Report By:	John Higgins	Date:	6/26/2019
		Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E33-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Disentangled
<b>Date First Observed Entangled</b>	9/16/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	3.6 NM northeast of Chatham, MA
<b>Latitude/Longitude First Observed Entangled</b>	41° 42.4'N 69° 53.0'W
<b>Event Description</b>	A charter vessel reported the entangled whale to the USCG who responded and stood by the animal until CCS could arrive. The relatively small whale was not very mobile with two very taught lines from the mouth leading down to weighted gear. The line was cut on the left side of the mouth and eventually the whale shed the line from its mouth. The gear was too heavy to recover by the CCS team.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting both sides of the mouth leading down to the anchoring wooden pots on both sides of the mouth. It was believed the whale had bit down on the groundline between two traps.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Entanglement trauma was noted, but it was believed it may have been from a previous incident.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	Unknown
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E33-16		
Field No.	PR 91616 Mn A	Date First Observed	9/16/2016
Location First Observed	3.6 NM northeast of Chatham, MA 41° 42.2' N, 69° 53.0' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

GEAR DESCRIPTION / ANALYSIS					
Date Gear Retrieved		N/A		Gear Retrieved By	Commercial fisherman
Date Gear Received		N/A		Received From	N/A
Sources:	USCG			Date Set	9/14/2016
	CCS	Photo documentation		Date Lost	Unknown
	Fisherman	Interview		Location	Same as whale location
	Other			Depth	68 feet
				Bottom Type	Gravel
Gear Type:	Trap/pot			Target Species:	Lobster
<u>Gear Description:</u> 15 pot trawls having 21 fathoms of 3/8ths sink ground line between each trap. Endlines are 7 fathoms float line and 14 fathoms sink line with the sink line at the surface, these endlines are 5/16ths in diameter. Surface buoys and high flyer are attached using 5 hog rings meeting the ALWTRP weak link method. Each end of the trawl has a red, Go Deep buoy marked with the vessel name and number and the South end of the trawl has a high flyer as well.					
<u>Comments:</u> No gear recovered. CCS left gear on-site due to inability to haul gear. Gear description was from fisherman's interview. Conclusion was based on fisherman's interview and his analysis of the trawl he recovered.					
<u>Conclusions:</u> Whale became entangled in the sinking ground line between two traps of a 15 lobster trap trawl.					
Report By:	Glenn Salvador	Date:	4/09/2018	Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E34-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	9/16/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Tear
<b>Location First Observed Entangled</b>	6.6 NM north of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 10.2'N 70° 12.4'W
<b>Event Description</b>	9/16/2016 <ul style="list-style-type: none"> <li>• WW vessel documented monofilament line trailing off the fluke.</li> </ul> 9/17/2016 <ul style="list-style-type: none"> <li>• Animal seen gear free.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Monofilament line seen trailing off the fluke. Unknown attachment point.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	9/12/2016
<b>Re-sightings Post-entanglement</b>	9/17/2016
<b>Life History Information</b>	Adult male
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury



## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	<b>E34-16</b>		
Field No.	PR 91616 Mn B	Date First Observed	9/16/2016
Location First Observed	6.6 NM north of Race Point, Provincetown, MA 42° 10.2' N, 70° 12.4' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Tear	Gear Analysis Conducted (y/n)	No

## GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	N/A	Gear Retrieved By	N/A
Date Gear Received	N/A	Received From	N/A
Sources:	USCG	Date Set	Unknown
	CCS	Date Lost	Unknown
	Fisherman	Location	Unknown
	Other	Depth	Unknown
		Bottom Type	Unknown
Gear Type:	Unknown	Target Species:	Unknown
<u>Gear Description:</u> Photo documentation shows monofilament line.			
<u>Comments:</u> Whale was seen 4 days prior gear free.			
<u>Conclusions:</u> Photo documentation and pre-entanglement sighting history indicates the whale interacted with U.S. monofilament line of an unknown fishery.			
Report By:	Glenn Salvador	Date:	4/09/2018
		Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E35-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Entangled
<b>Date First Observed Entangled</b>	9/17/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Crisscross
<b>Location First Observed Entangled</b>	9.1 NM northeast of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 11.8'N 70° 08.9'W
<b>Event Description</b>	9/17/2016 <ul style="list-style-type: none"> <li>• WW vessel documented monofilament line trailing off the fluke.</li> </ul> 11/01/2016 <ul style="list-style-type: none"> <li>• Whale seen gear free.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Monofilament line seen trailing off the fluke. Unknown attachment point.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	8/08/2016
<b>Re-sightings Post-entanglement</b>	11/01/2016
<b>Life History Information</b>	Adult male
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E35-16		
Field No.	PR 91716 Mn	Date First Observed	9/17/2016
Location First Observed	9.1 NM northeast of Race Point, Provincetown, MA 42° 11.8' N, 70° 08.9' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Crisscross	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set		Unknown	
	CCS			Date Lost		Unknown	
	Fisherman			Location		Unknown	
	Other			Depth		Unknown	
				Bottom Type		Unknown	
Gear Type:		Unknown		Target Species:		Unknown	
<u>Gear Description:</u> Photo documentation shows monofilament line of unknown origin.							
<u>Comments:</u> None.							
<u>Conclusions:</u> Photo documentation shows monofilament line of unknown origin.							
Report By:		Glenn Salvador		Date:		4/09/2018	
				Current Location of Gear		N/A	

<b>NMFS No.</b>	<b>E36-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Disentangled - gear shed
<b>Date First Observed Entangled</b>	9/22/2016
<b>Species</b>	Right
<b>Individual ID</b>	#3823
<b>Location First Observed Entangled</b>	6.5 NM north of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 10.2'N 70° 13.2'W
<b>Event description</b>	<p>9/22/2016</p> <ul style="list-style-type: none"> <li>A recreational boater reported the whale to the USCG. CCS received notification and with the help of a local WW vessel they relocated the whale traveling with buoys in tow. Despite the whale traveling at a high rate of speed and lots of trailing gear beyond the fluke, the CCS team managed to remove 200+ feet of line and two buoys. The team then attached a telemetry buoy to the remaining gear with the hope that it would aid the whale to shed the gear.</li> </ul> <p>9/23/2016 – 9/27/2016</p> <ul style="list-style-type: none"> <li>The buoy and whale traveled approximately 120 miles to the east. A NEFSC research vessel found the buoy adrift. They could not recover the buoy and it was unknown if gear was attached.</li> </ul> <p>3/06/2017</p> <ul style="list-style-type: none"> <li>CCS aerial survey spotted the whale gear free.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line over the rostrum leading into both sides of the mouth. It was thought lines also exited the mouth and led down to weighted gear, which then led up to the trailing buoys about 150 behind the whale.
<b>B. Subsequent Descriptions</b>	<p>3/06/2017</p> <ul style="list-style-type: none"> <li>No gear was present.</li> </ul>
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	November 2015
<b>Re-sightings Post-entanglement</b>	3/06/2017

<b>Life History Information</b>	Adult female
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E36-16		
Field No.	PR 92216 Eg	Date First Observed	9/22/2016
Location First Observed	6.5 NM north of Race Point, Provincetown, MA 42° 10.2' N, 70° 13.2' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Right	Gear Recovered (y/n)	Yes
Individual ID	#3823	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		9/22/2016	Gear Retrieved By	CCS	
Date Gear Received		10/04/2016	Received From	CCS	
Sources:	USCG		Date Set	9/19/2016 and 9/20/2016	
	CCS	Documentation and gear recovered	Date Lost	Unknown	
	Fisherman		Location	42 10.18'N and 70 13.22'W	
	Other		Depth	170 feet	
			Bottom Type	Gravel	
Gear Type:	Trap/pot		Target Species:	Lobster	
<u>Gear Description:</u> Recovered gear consisted of two surface buoys and associated 3/8" sinking endlines totaling 216'. Hog rings were present below both surface buoys.					
<u>Comments:</u> Fisherman's interview concluded the whale was entangled in two separate endlines of two different 20 trap trawl systems. Gear was originally deployed using 600 lbs. hogring weak links. Highflyers were originally set but not present during disentanglement operations. Endlines were comprised of 3/8" of 2/3 sink line and 1/3 float line. 20 fathoms of 3/8" sink line between traps. All traps recovered from one trawl. The other trawl was missing two traps. Both trawls were his gear and fished in MA state waters. Highflyer hogrings appeared to have parted as they were not recovered.					
<u>Conclusions:</u> Whale became entangled in the endline of one 20 pot trawl and dragged the endline and two traps 2 miles into another endline of his another separate trawl.					
Report By:	Glenn Salvador	Date:	4/09/2016	Current Location of Gear	Nargansett, RI; NOAA

<b>NMFS No.</b>	<b>E37-16</b>
<b>Initial Status</b>	Dead
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Deceased
<b>Date First Observed Entangled</b>	9/23/2016
<b>Species</b>	Right
<b>Individual ID</b>	#3694
<b>Location First Observed Entangled</b>	6.5 NM southeast of Seguin Island, ME
<b>Latitude/Longitude First Observed Entangled</b>	43° 39.3'N 69° 37.4'W
<b>Event Description</b>	WW found and reported the carcass, which was found the next morning by MMP aerial support. The carcass was towed to Portland, ME for a necropsy and the gear was recovered.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Extensive entanglement in mouth, on head and around the flipper.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Entanglement trauma on head, mouth and flipper.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	2/12/2016
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Adult female
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced mortality

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E37-16		
Field No.	PR 92316 Eg	Date First Observed	9/23/2016
Location First Observed	6.5 NM southeast of Seguin Island, ME 43° 39.3' N, 69° 37.4' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Right	Gear Recovered (y/n)	Yes
Individual ID	#3694	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

GEAR DESCRIPTION / ANALYSIS									
Date Gear Retrieved		9/25/2016		Gear Retrieved By		NMFS			
Date Gear Received		9/25/2016		Received From		NMFS			
Sources:	USCG				Date Set		Unknown		
	CCS				Date Lost		Unknown		
	Fisherman				Location		Unknown		
	Other			Depth		Unknown			
				Bottom Type		Unknown			
Gear Type:		Canadian snow crab trap/pot gear		Target Species:		Canadian snow crab			
<u>Gear Description:</u> Recovered gear consisted of 18 fathoms of 5/8” sink line attached to a polyball. Extending from the polyball was a 2 fathom section of 5/16” line with a hard plastic buoy spliced in. No weak links were present and markings on polyball could not be identified to correspond with any permitted U.S. fishery.									
<u>Comments:</u> Two types of line making up the recovered gear; one being a leaded poly sinking line, the other being a poly floating line. This line had characteristics that could not be identified with any known permitted U.S. fishery. The lines were joined utilizing a tapered splice consistent with gear recovered from an entanglement identified as Canadian snow crab gear. Markings on polyball were not consistent with Canadian snow crab requirements.									
<u>Conclusions:</u> Whale entangled in the endline and a surface system. The recovered line had unique characteristics that could not be identified with any known permitted U.S. fishery. These unique characteristics matched another entangled whale case with Canadian snow crab gear.									
Report By:		Glenn Salvador		Date:	4/09/2018		Current Location of Gear	Narragansett, RI; NOAA	



<b>NMFS No.</b>	<b>E38-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Gear shed
<b>Date First Observed Entangled</b>	10/08/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Aswan
<b>Location First Observed Entangled</b>	9.5 NM north of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 13.2'N 70° 12.9'W
<b>Event Description</b>	WW vessel documented two strand of monofilament line trailing off the right side of the fluke. Whale later sighted on an exact unknown date gear free.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Monofilament line seen trailing off the fluke. Unknown attachment point.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Yes, consult CCS
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Yes, consult CCS
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E38-16		
Field No.	PR 100816 Mn	Date First Observed	10/08/2016
Location First Observed	9.5 NM north of Race Point, Provincetown, MA 42° 13.2' N, 70° 12.9' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Aswan	Gear Analysis Conducted (y/n)	No

## GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set		Unknown	
	CCS			Date Lost		Unknown	
	Fisherman			Location		Unknown	
	Other			Depth		Unknown	
				Bottom Type		Unknown	
Gear Type:		Unknown		Target Species:		Unknown	
<u>Gear Description:</u> Photo documentation shows monofilament line of unknown origin.							
<u>Comments:</u> None.							
<u>Conclusions:</u> Photo documentation shows monofilament line of unknown origin.							
Report By:		Glenn Salvador		Date:		4/09/2018	
				Current Location of Gear		N/A	

<b>NMFS No.</b>	<b>E39-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Deceased
<b>Date First Observed Entangled</b>	10/16/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	GOM #1626
<b>Location First Observed Entangled</b>	2.1 NM east of Ipswich, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 41.3'N 70° 42.3'W
<b>Event Description</b>	<p>10/16/2016</p> <ul style="list-style-type: none"> <li>Recreational boaters spotted and documented the entangled whale but did not report the animal until later that evening. No response was undertaken.</li> </ul> <p>10/28/2016</p> <ul style="list-style-type: none"> <li>The carcass found caught in a pier up the Delaware River. The carcass was hoisted ashore and the gear recovered.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line seen exiting out of the mouth with a bullet buoy trailing along the right flank of the body.
<b>B. Subsequent Descriptions</b>	Line exiting the mouth, both flippers wrapped, with line also around the body and tailstock.
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	10/05/2016
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age, female
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced mortality

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E39-16		
Field No.	PR 101616 Mn	Date First Observed	10/16/2016
Location First Observed	2.1 NM east of Ipswich, MA 42° 41.3' N, 70° 42.3' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		10/29/2016	Gear Retrieved By		MERR	
Date Gear Received		11/15/2016	Received From		MERR	
Sources:	USCG		Date Set		Unknown	
	CCS		Date Lost		Unknown	
	Fisherman		Location		Unknown	
	Other		Depth		Unknown	
			Bottom Type		Unknown	
Gear Type:		Lobster Trap/pot	Target Species:		Lobster	
<u>Gear Description:</u> Recovered gear consists of 10 fathoms of line with a single bullet buoy. Below the surface buoy are 7 hog rings for a weak link. A small white toggle buoy was 5 fathoms below the surface buoy.						
<u>Comments:</u> None.						
<u>Conclusions:</u> Whale entangled in the endline and surface buoy of lobster gear from Maine exempted waters.						
Report By:		Glenn Salvador	Date:	4/09/2016	Current Location of Gear	Nargansett, RI; NOAA

<b>NMFS No.</b>	<b>E40-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Disentangled
<b>Date First Observed Entangled</b>	10/19/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Storm (with calf)
<b>Location First Observed Entangled</b>	0.5 NM north of Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 05.1'N 70° 09.1'W
<b>Event Description</b>	WW vessel reported the entangled whale to CCS and stood by while the team responded. Upon arrival, the CCS team noted the whale had line exiting both sides of the mouth with a bullet buoy on the left side. The buoy was removed and a sea anchor was added to aid the whale to shed the gear. The sea anchor drastically slowed the whale down and eventually she opened her mouth and all the line was removed.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line exiting both sides of the mouth. Line out of the right side of the mouth extended about 50 feet beyond the fluke. Line out of the left side of the mouth ended about 60 feet beyond the fluke.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	8/14/2016
<b>Re-sightings Post-entanglement</b>	10/19/2016
<b>Life History Information</b>	Adult female with calf
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E40-16		
Field No.	PR 101916 Mn	Date First Observed	10/19/2016
Location First Observed	0.5 NM north of Provincetown, MA 42° 05.1' N, 70° 09.1' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Storm	Gear Analysis Conducted (y/n)	Yes

## GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		10/19/2016	Gear Retrieved By	CCS	
Date Gear Received		10/21/2016	Received From	CCS	
Sources:	USCG		Date Set	Between 10/5 & 10/12/2016	
	CCS		Date Lost	Unknown	
	Fisherman		Location	Outer Cape lobster management area	
	Other		Depth	Unknown	
			Bottom Type	Sandy	
Gear Type:	Trap/pot		Target Species:	Lobster	
<u>Gear Description:</u> 144' of floating and sinking 3/8" endline with surface buoy and intact weak link. Red and yellow twine used in the endline per ALWTRP regulations.					
<u>Comments:</u> Fisherman uses single pots out in the Outer Cape lobster management area. Buoy line is 3/8" with top 2/3 sink and bottom 1/3 float line. Weak links are hog rings. Buoy lines are marked with appropriate ALWTRP red and yellow twine.					
<u>Conclusions:</u> Whale entangled in the endline of a single trap from the Outer Cape lobster management area under the ALWTRP.					
Report By:	Glenn Salvador	Date:	4/09/2018	Current Location of Gear	Narragansett, RI, NOAA

<b>NMFS No.</b>	<b>E41-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Gear shed
<b>Date First Observed Entangled</b>	10/25/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	SEUS #1606
<b>Location First Observed Entangled</b>	3.9 NM southwest of Beaufort, NC
<b>Latitude/Longitude First Observed Entangled</b>	34° 40.0'N 76° 42.9'W
<b>Event Description</b>	<p>10/25/2016</p> <ul style="list-style-type: none"> <li>A land-based observer reported the whale during the evening. No response undertaken due to the time of day.</li> </ul> <p>10/26/2016</p> <ul style="list-style-type: none"> <li>A recreational boater found the animal again and stood-by while a response was mounted by the North Carolina Maritime Museum. While the team was on-scene, the whale broke free of the gear and the team managed to recover some of it.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	A relatively simple entanglement of the float line of a gillnet panel around the insertion area of the fluke.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	Fresh entanglement trauma on the tailstock.
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	3/01/2016
<b>Re-sightings Post-entanglement</b>	10/26/2016
<b>Life History Information</b>	Unknown age and sex.
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E41-16		
Field No.	PR 102516 Mn	Date First Observed	10/25/2016
Location First Observed	3.9 NM southwest of Beaufort, NC 34° 40.0' N, 76° 42.9' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		10/26/2016	Gear Retrieved By	Network responder and Duke Marine Lab	
Date Gear Received		10/26/2016	Received From	Network responder and Duke Marine Lab	
Sources:	USCG		Date Set	10/25/2016 at 8 AM	
	CCS		Date Lost	N/A	
	Fisherman		Location	100 yards of beach in Atlantic Beach, NC	
	Other		Depth	8 to 15 feet	
			Bottom Type	Sand	
Gear Type:	Sink gillnet		Target Species:	Spot fish	
<u>Gear Description:</u> One 50 fathom sink gillnet with 3” mesh. Anchored on one end with 4 lbs Danforth in 15’ of water. River/Round anchor on other end of net in 8’ of water.					
<u>Comments:</u> Fisherman was unaware of ALWTRP regulations. Gear was out of compliance with weak link, line marking and anchoring requirements. Gear was returned to fisherman after gear analysis was completed. Analysis done by SERO and SERO OLE.					
<u>Conclusions:</u> Whale was entangled in complete gillnet system in 8-15’ of water. Gear was not compliant with weak link, line marking and anchoring requirements under the ALWTRP					
Report By:	Glenn Salvador	Date:	4/09/2018	Current Location of Gear	N/A



<b>NMFS No.</b>	<b>E42-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	11/13/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	NYC #0052
<b>Location First Observed Entangled</b>	Off Belmar, NJ
<b>Latitude/Longitude First Observed Entangled</b>	Unknown
<b>Event Description</b>	WW vessel documented monofilament line trailing off the fluke.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Monofilament line seen trailing off the fluke. Unknown attachment point.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	None
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E42-16		
Field No.	PR 111316 Mn	Date First Observed	11/13/2016
Location First Observed	Off Belmar, NJ	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	NYC #0052	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set		Unknown	
	CCS			Date Lost		Unknown	
	Fisherman			Location		Unknown	
	Other			Depth		Unknown	
				Bottom Type		Unknown	
Gear Type:		Unknown		Target Species:		Unknown	
<p><u>Gear Description:</u> Photo documentation shows monofilament line of unknown origin.</p>							
<p><u>Comments:</u> None.</p>							
<p><u>Conclusions:</u> Photo documentation shows monofilament line of unknown origin.</p>							
Report By:		Glenn Salvador		Date:			
				Current Location of Gear		N/A	

<b>NMFS No.</b>	<b>E43-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Entangled
<b>Date First Observed Entangled</b>	11/14/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	4.7 NM east of Stone Harbor, NJ
<b>Latitude/Longitude First Observed Entangled</b>	39° 02.5'N 74° 39.6'W
<b>Event Description</b>	A commercial fisherman reported the entangled whale to the USCG. The USCG responded and documented the animal. No disentanglement response undertaken due to the location.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Line visible around the left pectoral flipper and around the fluke with two buoys trailing a short distance behind. Unknown full entanglement configuration.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced prorated injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E43-16		
Field No.	PR 111416 Mn	Date First Observed	11/14/2016
Location First Observed	4.7 NM east of Stone Harbor, NJ 39° 02.5' N, 74° 39.6' 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		N/A	Gear Retrieved By		N/A	
Date Gear Received		N/A	Received From		N/A	
Sources:	USCG	Photographs	Date Set		Unknown	
	CCS		Date Lost		Unknown	
	Fisherman		Location		Unknown	
	Other		Depth		Unknown	
			Bottom Type		Unknown	
Gear Type:		Unknown Trap/pot		Target Species:	Unknown	
<u>Gear Description:</u> Photographs show two buoys and trailing close behind the animal and some line around the fluke and left flipper.						
<u>Comments:</u> Identification marks were visible on the buoys. Fisherman had multiple permits so the exact fishery was unknown.						
<u>Conclusions:</u> The whale was entangled in the endline of U.S. trap/pot gear.						
Report By:		Glenn Salvador	Date:	4/24/2018	Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E44-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	12/04/2016
<b>Species</b>	Right
<b>Individual ID</b>	#3405, Fuse
<b>Location First Observed Entangled</b>	3.5 NM east of Sandy Hook, NJ
<b>Latitude/Longitude First Observed Entangled</b>	40° 30'N 73° 54'W
<b>Event Description</b>	WW vessel documented and reported the whale after receiving authorization from NMFS. No response undertaken due to the location.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Two lines seen over the head and some monofilament mesh was visible on the rostrum and head. Unknown full entanglement configuration.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	August 2016
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Adult female
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced prorated injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E44-16		
Field No.	PR 120416 Eg	Date First Observed	12/04/2016
Location First Observed	3.5 NM east of Sandy Hook, NJ 40° 30' N, 73° 54' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Right	Gear Recovered (y/n)	No
Individual ID	#3405, Fuse	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG		Date Set	Unknown			
	CCS		Date Lost	Unknown			
	Fisherman		Location	Unknown			
	Other		Depth	Unknown			
			Bottom Type	Unknown			
Gear Type:	Unknown			Target Species:	Unknown		
<u>Gear Description:</u> Photographs show a line with monofilament mesh of unknown size.							
<u>Comments:</u> None.							
<u>Conclusions:</u> Monofilament mesh and line of unknown fishery and origin.							
Report By:	Glenn Salvador	Date:		Current Location of Gear	N/A		

<b>NMFS No.</b>	<b>E45-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	12/04/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Not identifiable
<b>Location First Observed Entangled</b>	1.1 NM south of Quogue, NY
<b>Latitude/Longitude First Observed Entangled</b>	40° 47.3'N 72° 35.7'W
<b>Event Description</b>	A commercial fisherman documented the entangled whale and reported the sighting once they were back on shore. No response undertaken due to the location. A search was conducted the next day but the animal was not found.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	A highflyer seen trailing behind the animal.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced prorated injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E45-16		
Field No.	PR 120416 Mn	Date First Observed	12/04/2016
Location First Observed	1.1 NM south of Quogue, NY 40° 47.3' N, 72° 35.7' 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		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG		Date Set	Unknown			
	CCS		Date Lost	Unknown			
	Fisherman		Location	Unknown			
	Other		Depth	Unknown			
			Bottom Type	Unknown			
Gear Type:	Unknown			Target Species:	Unknown		
<u>Gear Description:</u> Photographs show a highflyer trailing the animal.							
<u>Comments:</u> Unknown full entanglement configuration.							
<u>Conclusions:</u> The highflyer buoy and associated endline is of an unknown fishery and origin.							
Report By:	Glenn Salvador	Date:		Current Location of Gear	N/A		



<b>NMFS No.</b>	<b>E46-16</b>
<b>Initial Status</b>	Dead
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Deceased
<b>Date First Observed Entangled</b>	12/04/2016
<b>Species</b>	Minke
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	10.8 NM east of Ocean City, MD
<b>Latitude/Longitude First Observed Entangled</b>	38° 20.5'N 74° 51.1'W
<b>Event Description</b>	A commercial fisherman recovered a fresh carcass with gillnet wrapped around the body and tailstock.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Gillnet wrapped around the head, body and tailstock.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced mortality

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E46-16		
Field No.	PR 120416 Ba	Date First Observed	12/04/2016
Location First Observed	10.8 NM east of Ocean City, MD 38° 20.5' N, 74° 51.1' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Minke	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved	12/04/2016	Gear Retrieved By	Fisherman
Date Gear Received	N/A	Received From	N/A
Sources:	USCG	Date Set	12/02/2016
	CCS	Date Lost	Unknown
	Fisherman	Location	38° 12'N and 74 30.6'W
	Other	Depth	Unknown
		Bottom Type	Unknown
Gear Type:	Sink gillnet	Target Species:	Spiny dogfish
<p><b><u>Gear Description:</u></b> String of 4 -300 foot sink gill nets with 6" mesh, 25 mesh deep and # 10 twine. String anchored with 22 lbs. Danforth style anchors, nets containing off the shelf and rope of appropriate breaking strength weak links. Buoy line was 120 feet of 3/8" sink rope with a highflyer on each end of string. Endline is marked with the appropriate blue markings under the ALWTRP.</p>			
<p><b><u>Comments:</u></b> Surface system did not have appropriate weak links via the ALWTRP. Fisherman was required by OLE to go through compliance training with GARFO. Information about the gear was recorded during an interview with the fisherman. Fisherman retained their gear.</p>			
<p><b><u>Conclusions:</u></b> Whale became entangled in the leadline, float line and mesh of the 3rd net of a 4 net set of sink gillnet.</p>			
Report By:	Glenn Salvador	Date:	
		Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E47-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Disentagled
<b>Date First Observed Entangled</b>	12/08/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	GOM #1636
<b>Location First Observed Entangled</b>	3.8 NM northeast of Hull, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 23.5'N 70° 47.9'W
<b>Event Description</b>	<p>12/08/2016</p> <ul style="list-style-type: none"> <li>A commercial fisherman reported the anchored whale entangled in his gear. The fisherman managed to recover 10 traps from his 15 trap trawl and he believed the whale was entangled in the remaining gear. Due to the time of day and poor weather, no response was undertaken.</li> </ul> <p>12/11/2016</p> <ul style="list-style-type: none"> <li>The first good weather day, CCS, MEP and the commercial fisherman responded and quickly found the whale in the area. The commercial fisherman provided extensive detail of his set which aided the CCS team to quickly disentangle the difficult entanglement.</li> </ul>
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	Two partially embedded wraps around the insertion area of the fluke. One line led down to the remaining anchoring gear and another led to the surface to a single bullet buoy.
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	Partially embedded lines around the tailstock along with additional entanglement trauma on that part of the body. The whale was using its pectoral flippers for proposal. When line was removed the area bled for a period of 25 minutes.
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None

<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E47-16		
Field No.	PR 120816 Mn	Date First Observed	12/08/2016
Location First Observed	3.8 NM northeast of Hull, MA 42° 23.5' N, 70° 47.9' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		12/11/2016	Gear Retrieved By	CCS	
Date Gear Received		N/A	Received From	N/A	
Sources:	USCG		Date Set	11/28/2016	
	CCS	Photographs	Date Lost	Unknown	
	Fisherman	Interview	Location	42 23.5'N and 70 47.9'W	
	Other		Depth	125 feet	
			Bottom Type	Gravel	
Gear Type:	Lobster Trap/pot		Target Species:	Lobster	
<u>Gear Description:</u> 15 pot trawls with 12 fathoms of sink line between traps. Sink line is used throughout his gear exclusively. Fisherman recovered 10 of the 15 traps from his original set. Required weak links and red marks according to ALWTRP was also present.					
<u>Comments:</u> Gear was returned to fisherman by MEP after compliance was determined. Gear description based on owner interview. Fisherman reported the entanglement and offered assistance during the disentanglement.					
<u>Conclusions:</u> Whale became entangled in the endline of 15 trap trawl. 5 pots broke free with endline which the animal dragged approximately ½ mile before becoming anchored against.					
Report By:	Glenn Salvador	Date:	4/23/2018	Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E48-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status</b> (as of the date the NMFS report was completed)	Entangled
<b>Date First Observed Entangled</b>	12/14/2016
<b>Species</b>	Finback
<b>Individual ID</b>	Unknown
<b>Location First Observed Entangled</b>	1.4 NM south of Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 02.1'N 70° 10.0'W
<b>Event Description</b>	A commercial fisherman observed the whale pulling a bullet buoy close behind the fluke. Despite the close location of the CCS response team, the whale was not relocated.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	A bullet buoy was trailing close behind the animal. Unknown attachment point and full configuration.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced prorated injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E48-16		
Field No.	PR 121416 Bp	Date First Observed	12/14/2016
Location First Observed	1.4 NM south of Provincetown, MA 42° 02.1' N, 70° 10.0' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Observation
Species	Finback	Gear Recovered (y/n)	No
Individual ID	Unknown	Gear Analysis Conducted (y/n)	No

## GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		N/A		Gear Retrieved By		N/A	
Date Gear Received		N/A		Received From		N/A	
Sources:	USCG			Date Set	Unknown		
	CCS			Date Lost	Unknown		
	Fisherman			Location	Unknown		
	Other			Depth	Unknown		
				Bottom Type	Unknown		
Gear Type:	Unknown			Target Species:	Unknown		
<u>Gear Description:</u> The fisherman described a red bullet buoy trailing behind the animal.							
<u>Comments:</u> None.							
<u>Conclusions:</u> The buoy and associated line is of unknown origin.							
Report By:	Glenn Salvador	Date:	4/23/2018	Current Location of Gear	N/A		

<b>NMFS No.</b>	<b>E49-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Entangled
<b>Date First Observed Entangled</b>	12/19/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	GOM #1633
<b>Location First Observed Entangled</b>	0.1 NM east of Tiverton, NS, Canada
<b>Latitude/Longitude First Observed Entangled</b>	44° 23.6'N 66° 12.5'W
<b>Event Description</b>	A ferry vessel noted the whale towing a red buoy behind its fluke. No response was undertaken and no documentation obtained.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	A red buoy seen trailing behind the animal. Unknown attachment point.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	None
<b>Re-sightings Post-entanglement</b>	None
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced prorated injury



## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	<b>E49-16</b>		
Field No.	PR 121916 Mn	Date First Observed	12/19/2016
Location First Observed	0.1 NM east of Tiverton, NS, Canada 44° 23.6' N, 66° 12.5' 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	N/A	Gear Retrieved By	N/A
Date Gear Received	N/A	Received From	N/A
Sources:	USCG	Date Set	Unknown
	CCS	Date Lost	Unknown
	Fisherman	Location	Unknown
	Other	Depth	Unknown
		Bottom Type	Unknown
Gear Type:	Unknown	Target Species:	Unknown
<u>Gear Description:</u> The description was the whale having a red buoy in tow.			
<u>Comments:</u> None.			
<u>Conclusions:</u> The buoy and line is of unknown origin.			
Report By:	Glenn Salvador	Date:	4/23/2018
		Current Location of Gear	N/A

<b>NMFS No.</b>	<b>E50-16</b>
<b>Initial Status</b>	Alive
<b>Subsequent Status (as of the date the NMFS report was completed)</b>	Disentangled
<b>Date First Observed Entangled</b>	12/20/2016
<b>Species</b>	Humpback
<b>Individual ID</b>	Not identifiable
<b>Location First Observed Entangled</b>	1.2 NM south of Race Point, Provincetown, MA
<b>Latitude/Longitude First Observed Entangled</b>	42° 02.6'N 70° 14.1'W
<b>Event Description</b>	CCS was on a research cruise watching two whales lunge feeding. One of the whales dove near an endline and quickly pulled the buoy under. Initially the entanglement involved the mouth, tailstock and fluke, but the configuration stabilized to only have line exiting the mouth. The whale then quickly took off at a high rate of speed and the team managed to attach a control line and polyball to the trailing gear, which eventually pulled the remaining gear from the mouth.
<b>Description of Gear on Whale as Reported</b>	
<b>A. During Initial Sighting</b>	Initially, line was wrapped around the body, tailstock and in the mouth. After the initial thrashing about, the configuration stabilized to line exiting the mouth only.
<b>B. Subsequent Descriptions</b>	None
<b>C. Diagram of Entangling Gear on Whale</b>	None
<b>Description of Wounds/Condition</b>	
<b>A. During Initial Sighting</b>	None noted
<b>B. Subsequent Descriptions</b>	None
<b>Sighting prior to entanglement</b>	Unknown
<b>Re-sightings Post-entanglement</b>	Unknown
<b>Life History Information</b>	Unknown age and sex
<b>NMFS Serious Injury/Mortality Determination</b>	Human-induced injury

## FISHERY INTERACTION GEAR ANALYSIS

NMFS No.	E50-16		
Field No.	PR 122016 Mn	Date First Observed	12/20/2016
Location First Observed	1.2 NM south of Race Point, Provincetown, MA 42° 02.1' N, 70° 10.0' W	Type of Event - Observation, Disentanglement, Stranding. Other (describe)	Disentanglement
Species	Humpback	Gear Recovered (y/n)	Yes
Individual ID	Unknown	Gear Analysis Conducted (y/n)	Yes

### GEAR DESCRIPTION / ANALYSIS

Date Gear Retrieved		12/20/2016	Gear Retrieved By	CCS	
Date Gear Received		1/05/2017	Received From	CCS	
Sources:	USCG		Date Set	Unknown	
	CCS	Photographs	Date Lost	Unknown	
	Fisherman	Interview	Location	42° 02.6'N and 70° 14.1'W	
	Other		Depth	Unknown	
			Bottom Type	Sand	
Gear Type:	Lobster Trap/pot		Target Species:	Lobster	
<u>Gear Description:</u> Recovered gear consisted of a marked surface buoy and approximately 312' of 3/8" sinking endline that had weaklinks and required red marks under the ALWTRP.					
<u>Comments:</u> Fisherman fishes 10 trap trawl using 22 fathoms of 7/16" sink line between traps. Buoy lines are 3/8" with bottom third being float and the top 2/3 being sink line. Entanglement witnessed and configuration initially involved the mouth, body and tail. Configuration then stabilized to line exiting the mouth.					
<u>Conclusions:</u> Whale became entangled in the endline of a 10 lobster trap trawl in MA state waters.					
Report By:	Glenn Salvador	Date:	4/23/2018	Current Location of Gear	N/A