

Greater Atlantic Region Policy Series [23-05] 2021 Atlantic Large Whale Entanglement Report

Meredith Moise, David Morin, Rob Martin and John Higgins

2021 Atlantic Large Whale Entanglement Report

Prepared by Meredith Moise, David Morin, Rob Martin and John Higgins

> National Marine Fisheries Service Greater Atlantic Region Protected Resources Division 55 Great Republic Drive Gloucester, MA 01930-2298

Comments, questions or assistance with this document, please contact: David Morin Large Whale Disentanglement Coordinator Email: David.Morin@NOAA.gov

2021 Atlantic Large Whale Entanglement Report

This report summarizes all large whale entanglement incidents along the Atlantic coast that were reported to NOAA Fisheries in 2021 in which line, gear or unknown materials were directly observed on the whale. Only incidents with new indications of entanglement first reported in 2021 are included. We do not include whales that were reported entangled in earlier years and continued to be entangled in 2021. These incidents represent a minimum number as not all interactions are reported and not all interactions that are reported have gear still present when documented and reported.

| | Live | Dead | Total |
|----------------|------|------|-------|
| Right Whale | 3 | 0 | 3 |
| Humpback Whale | 21 | 0 | 21 |
| Finback Whale | 2 | 0 | 2 |
| Minke Whale | 2 | 2 | 4 |
| Sei Whale | 0 | 0 | 0 |
| TOTAL | 28 | 2 | 30 |

Table 1. 2021 Atlantic large whale entanglement reports with gear present*

* Gear present entanglement cases are those for which 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 NOAA Fisheries or Center for Coastal Studies (CCS) staff and the account was descriptive enough to eliminate doubt about whether or not the whale was entangled.

Descriptions of wounds and the condition of the animal in this report are based on the preliminary information at the time the incident was documented. NOAA Fisheries Northeast Fisheries Science Center (NEFSC) determines the final condition classification based on their data analysis through the mortality and serious injury determinations process (https://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-protection-act-policies-guidance-and-regulations#distinguishing-serious-from-non-serious-injury-of-marine-mammals). Information obtained after the production time frame of this report may alter any determination, status, or sighting information provided here. As described above, this report only includes animals with documented or witnessed gear. Animals that have no gear documented or witnessed and a cause of death or injuries determined to be due to entanglement are described in the NEFSC Mortality and Serious Injury reports (https://repository.library.noaa.gov/view/noaa/50947). Stock assessment reports

(https://www.fisheries.noaa.gov/national/marine-mammal-protection/marine-mammal-stockassessments) summarize the full status of a species.

Notes:

- Entanglement case information was 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) as well as through interviews with fishermen when appropriate. The reports contain all known U.S. Atlantic large whale entanglement incidents with gear present reported in 2021, including incidents of entangled whales from stocks that fall under U.S. protection (e.g. North Atlantic right whales, Gulf of Maine humpback whales) that occurred outside U.S. borders.
- Not all entanglement incidents are observed and many entanglement scars and injuries are first seen without gear present, so this report is not a comprehensive list of all large whale 2021 entanglement incidents.
- The terms rope and line (as in buoy line) are used interchangeably however when the gear is monofilament line that is explicitly stated.
- The presence or absence of line can be difficult to determine when monitoring monofilament cases. Environmental conditions, lighting, and animal behavior, can make detectability of monofilament difficult. The first gear-free sighting for a monofilament incident is not a definitive assessment of lack of monofilament line.
- NOAA staff conducted documentation and analysis on recovered gear and/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 first observed entangled is where the entangled whale was first sighted and reported. Unless an animal is anchored, the location first observed is rarely where the whale first became entangled.
- Some incident reports include photographs. Personal identification details of gear such as permit numbers or vessel names are manually redacted from the photographs.
- 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.

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- New England Aquarium and the Right Whale Consortium provide sighting and life history information for right whales.
- Center for Coastal Studies, with contributions from 7 Seas Whale Watch, Blue Ocean Society, Boston Harbor Cruises, Brier Island Whale and Seabird Cruises, Dolphin Fleet, FWC. GA DNR, Gotham Whale and Whale and Dolphin Conservation, provided demographic and sighting information for humpback whales. Please contact Jooke Robbins of CCS for more information.
- CCS compiled thousands of photographs from numerous whale watch companies and ALWDN partners for these determinations.
- NOAA Fisheries staff and the GARFO policy series editors that offered helpful comments.

| Table 2. A | cronyms |
|--------------|--|
| ALWTRP | Atlantic Large Whale Take Reduction Plan |
| AMAPPS | Atlantic Marine Assessment Program for Protected Species |
| AMSeas | Atlantic Marine Conservation Society, NY |
| CMARI | Clearwater Marine Aquarium Research Institute |
| CCS | Center for Coastal Studies, MA |
| CWI | Canadian Whale Institute (Canada) |
| CWRT | Campobello Whale Rescue (Canada) |
| DFO | Department of Fisheries and Oceans (Canada) |
| DFO C&P / TC | DFO Conservation and Protection Program / Transport Canada |
| FWC | Florida Fish and Wildlife Conservation Commission |
| FWRI | Fish and Wildlife Research Institute, Florida |
| GA DNR | Georgia Department of Natural Resources |
| GAM | Gear Alert Marker |
| GARFO | Greater Atlantic Regional Fisheries Office - NOAA |
| MA EP | Massachusetts Environmental Police |
| MMoME | Marine Mammals of Maine |
| MMP | Maine Marine Patrol |
| NEAq | New England Aquarium |
| NEFSC | Protected Species Branch, Northeast Fisheries Science Center |
| NMFS | National Marine Fisheries Service/NOAA Fisheries |
| NOAA | National Oceanic and Atmospheric Administration |
| RI DEM | Rhode Island Department of Environmental Management |
| USCG | United States Coast Guard |
| VAq | Virginia Aquarium |
| VRMC | Virginia Marine Resources Commission |

| | B | | 101 2021 | | Sem pres | | |
|----------------------------------|----------|------------------------------|-----------------------------|----------------------------------|-------------------|----------------------|---------------------------------|
| Entanglement Report Number | Species | Date of First Observation | Dead/ Alive ¹ | SI Determination ² | Gear Collected | Type of Gear | Gear part ID ³ |
| E01-21 | Humpback | 1/2/2021 | Alive | Non-SI | No | Unknown | B,V |
| E02-21 | Right | 1/11/2021 | Alive | SI | No | Unknown | T, U |
| E03-21 | Humpback | 3/3/2021 | Alive | SI | No | Unknown | U |
| E04-21 | Right | 3/10/2021 | Alive | SI | Yes | Unknown | U |
| E05-21 | Humpback | 5/7/2021 | Alive | Non-SI | No | Unknown | U |
| E06-21 | Minke | 6/6/2021 | Alive | SI (PR) | No | Unknown | U |
| E07-21 | Humpback | 6/8/2021 | Alive | Non-SI | Yes | U.S. Lobster | S, V |
| E08-21 | Humpback | 6/24/2021 | Alive | Non-SI | No | Unknown Mesh | N |
| E09-21 | Humpback | 6/28/2021 | Alive | Non-SI | No | U.S. monofilament | М |
| E10-21 | Humpback | 6/29/2021 | Alive | SI (PR) | No | Unknown Mesh | N |
| E11-21 | Minke | 7/4/2021 | Dead | SI | Yes | Unknown | U, N, debris |
| E12-21 | Humpback | 7/7/2021 | Alive | Non-SI | Yes | U.S. monofilament | М |
| E13-21 | Right | 7/13/2021 | Alive | SI | No | Unknown Canadian | U |
| E14-21 | Humpback | 7/13/2021 | Alive | Non-SI | No | U.S. monofilament | М |
| E15-21 | Humpback | 7/14/2021 | Alive | SI (PR) | No | U.S. Monofilament | М |
| E16-21 | Humpback | 7/19/2021 | Alive | Non-SI | No | U.S. monofilament | М |
| E17-21 | Humpback | 7/27/2021 | Alive | Non-SI | No | Monofilament | М |
| E18-21 | Humpback | 7/28/2021 | Alive | Non-SI | No | U.S. monofilament | М |
| E19-21 | Minke | 8/1/2021 | Dead | SI | No | U.S. Lobster | В, V |
| E20-21 | Humpback | 8/1/2021 | Alive | SI | No | Unknown | U |
| E21-21 | Humpback | 8/4/2021 | Alive | Non-SI | No | U.S. monofilament | М |

Table 3. Atlantic entanglement summary for 2021 confirmed cases with gear present.

Table continues and notes on next page

| | | Biolite entreme | | ary 101 2021 c omm | | <u>8 - </u> | |
|----------------------------------|----------|------------------------------|-----------------------------|----------------------------------|-------------------|---|---------------------------------|
| Entanglement Report Number | Species | Date of First Observation | Dead/ Alive ¹ | SI Determination ² | Gear Collected | Type of Gear | Gear part ID ³ |
| E22-21 | Humpback | 8/8/2021 | Alive | Non-SI | Yes | U.S. Lobster | S, V |
| E23-21 | Humpback | 8/8/2021 | Alive | Non-SI | No | U.S. monofilament | М |
| E24-21 | Humpback | 8/16/2021 | Alive | SI (PR) | No | Unknown | U |
| E25-21 | Finback | 8/29/2021 | Alive | SI (PR) | No | Unknown | S, V |
| E26-21 | Humpback | 8/30/2021 | Alive | SI | No | Unknown Gillnet | N |
| E27-21 | Finback | 9/1/2021 | Alive | SI | No | Navigational Buoy | N/A |
| E28-21 | Humpback | 9/25/2021 | Alive | Non-SI | No | Monofilament | М |
| E29-21 | Minke | 10/10/2021 | Alive | Non-SI | Yes | U.S. Lobster | B, B |
| E30-21 | Humpback | 12/29/2021 | Alive | SI | No | Unknown | U |

Table 3 continued. Atlantic entanglement summary for 2021 confirmed cases with gear present.

¹ Dead/Alive column represents the status as of the writing of this report.

² 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

<u>https://media.fisheries.noaa.gov/dam-migration/02-238-01.pdf</u> for more information regarding determination definitions.

³ 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/sets 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.

| NMFS No: E01-21 | Date First Observed Entangled: 1/2/2021 | | | |
|---|--|--|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | | | |
| 2.0 NM east of Virginia Beach, VA | Entangled: | | | |
| | 36° 54.7' N, 75° 56.8' W | | | |
| Initial Movement (Anchored/Free): Free- | Status: Gear Shed | | | |
| swimming | | | | |
| Sighting prior to entanglement: February | Re-sightings Post-entanglement: 1/12/2021 | | | |
| 2020 | | | | |
| Whale Biology: Live humpback whale, unknown ID and life history | | | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | | | |

Event Description:

1/2/2021

• Whale watch vessel reported and documented an entangled humpback. 1/5/2021

• Another whale watch vessel reported this same individual, still entangled, and stood by while USCG, VAq, and VRMC responded. The teams continued documentation and applied a limpet tag to the whale to gather additional information.

1/12/2021

• The same whale watch vessel documented this whale several times over the next few days, and no entangling gear was observed.

| Description of Gear on Whale as Reported: | | | | |
|---|--|--|--|--|
| During Initial Sighting: Red bullet buoy in Subsequent Descriptions: On 1/5/21, there | | | | |
| tow about one body's length aft of the animal. was no obvious change in entanglen | | | | |
| Point of attachment is unclear, but likely | configuration. On $1/12/21$, no entangling gear | | | |
| involves the mouth and/or flipper. | was observed. | | | |

| Description of Wounds/Condition: | | | |
|---|--|--|--|
| During Initial Sighting: Whale was | Subsequent Descriptions: Actively feeding. | | |
| described as being smaller in size, and | | | |
| traveling slowly. | | | |

| FISHERY INTERACTION GEAR ANALYSIS | | | | |
|-----------------------------------|--|-------------------------|---------------|--|
| NMFS No. | E01-21 | Gear Recovered (y/n) | No | |
| Date Set | Unknown | Date Lost | Unknown | |
| Line Diameter | Unknown | Gear Part | Buoy, endline | |
| Fishery Mark | No | Fishery Mark Origin and | N/A | |
| Recovered/Documented | | Color | | |
| Target Species | Unknown | Location of set | Unknown | |
| Gear Type | Buoy and endline of unknown origin. | | | |
| Gear Description: | Documentation showed a red bullet buoy was trailing behind the | | | |
| | whale. | | | |
| Comments: | None. | | | |
| Conclusions: | Whale was entangled in buoy and endline of unknown origin. | | | |

| NMFS No: E02-21 | Date First Observed Entangled: 1/11/2021 | | |
|---|---|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | | |
| 9.1 NM east of Fernandina Beach, FL | Entangled: | | |
| | 30° 42.1' N, 81° 15.0' W | | |
| Initial Movement (Anchored/Free): Free- | Status: Entangled | | |
| swimming | | | |
| Sighting prior to entanglement: 4/7/2019 Re-sightings Post-entanglement: None | | | |
| Whale Biology: Live right whale, #1803, adult male | | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury | | | |

Event Description:

1/11/2021

• The CMARI aerial survey team discovered an entangled right whale, triggering an onwater response by GA DNR. Teams were able to obtain additional documentation of the entanglement configuration, but due to rough sea conditions and the behavior of the whale, attempts to tag were unsuccessful.

1/12/2021

- Aerial and vessel-based survey teams were able to relocate the whale. Due to rough sea state and the behavior of the whale, the team was unable attach a telemetry buoy. 1/13/2021
 - Multiple agencies conducted both aerial and vessel-based surveys to try and relocate this whale, but were unsuccessful.

| Description of Gear on Whale as Reported: | | | | |
|--|--------------------------------|--|--|--|
| During Initial Sighting: Multiple wraps of blue line around the peduncle and both fluke blades. A trap/pot trailed just aft of the flukes and at least one length of the blue rope trailed 50-60ft aft of the flukes. | Subsequent Descriptions: None. | | | |

| Description of Wounds/Condition: | | | | |
|---|--------------------------------|--|--|--|
| During Initial Sighting: Below-average condition, open wounds at the peduncle and a heavier load of cyamids at the mouth, head | Subsequent Descriptions: None. | | | |
| and peduncle. | | | | |

| FISHERY INTERACTION GEAR ANALYSIS | | | | |
|-----------------------------------|--|-------------------------|------------|--|
| NMFS No. | E02-21 Gear Recovered (y/n) No | | | |
| Date Set | Unknown | Date Lost | Unknown | |
| Line Diameter | Unknown | Gear Part | Rope, trap | |
| Fishery Mark | No | Fishery Mark Origin and | N/A | |
| Recovered/Documented | | Color | | |
| Target Species | Unknown | Location of set | Unknown | |
| Gear Type | Rope and trap of unknown origin. | | | |
| Gear Description: | Documentation showed rope and a partial wire mesh trap of | | | |
| | unknown origin. | | | |
| Comments: | None. | | | |
| Conclusions: | Whale was entangled in rope with a wire mesh trap of unknown | | | |
| | origin. | | | |

| NMFS No: E03-21 | Date First Observed Entangled: 3/3/2021 | |
|---|---|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 18.9 NM southeast of Beaufort, NC | Entangled: | |
| | 34° 24.7' N, 76° 32.5' W | |
| Initial Movement (Anchored/Free): Free- | Status: Entangled | |
| swimming | | |
| Sighting prior to entanglement: UnknownRe-sightings Post-entanglement: None | | |
| Whale Biology: Live humpback whale, unknown ID and life history | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury | | |

Event Description:

A boater observed an entangled whale, but was delayed in reporting due to lack of cell service. Rough sea conditions prevented a response from being mounted.

| Description of Gear on Whale as Reported: | |
|---|--------------------------------|
| During Initial Sighting: Tight wrap of heavy line around the body just forward of the pectoral flippers. | Subsequent Descriptions: None. |

| Description of Wounds/Condition: | |
|---|--------------------------------|
| During Initial Sighting: Small in size, | Subsequent Descriptions: None. |
| observed breaching. | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|---------|
| NMFS No. | E03-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Rope |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Unknown rope | | |
| Gear Description: | Documentation showed rope over the back. | | |
| Comments: | None. | | |
| Conclusions: | The whale was entangled in rope of unknown origin. | | |

| NMFS No: E04-21 | Date First Observed Entangled: 3/10/2021 | |
|--|---|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 8.3 NM north of Sandwich, MA | Entangled: | |
| | 41° 54.6' N, 70° 26.1' W | |
| Initial Movement (Anchored/Free): Free- | Status: Partial disentanglement – Monito | |
| swimming | | |
| Sighting prior to entanglement: 7/24/2020 Re-sightings Post-entanglement: None | | |
| Whale Biology: Live right whale, #3560 Snow Cone, adult female | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury | | |

Event Description:

3/10/2021

• The CCS aerial survey team documented an entangled right whale, prompting a response by both MA Environmental Police and the CCS response team. Working from Ibis, the team attached a telemetry buoy, as well as an A4 buoy to add floatation and mark the whale during dives. The team then aimed to use a cutting grapple to remove some line, but severed it ahead of the telemetry attachment. Attempts to reattach the telemetry were unsuccessful and response efforts were called off due to worsening seas. MA EP retrieved the severed gear, and the whale still remains partially entangled.

3/12/2021

• The CCS aerial survey team documented this whale in an aggregation of right whales. Based on imagery from the prior sighting, the entanglement configuration may have shifted. Using a grapple, the team affixed an A4 buoy, but Snow Cone's behavior was challenging to work with. With sea conditions declining, the team opted to cut the longer trailing line as far forward of the grapple as possible, shortening it. After this, the whale dove and was not relocated.

5/10/2021

• A DFO aerial survey team sighted Snow Cone, still entangled.

5/11/2021

• The DFO aerial team had another sighting of Snow Cone and helped guide efforts of the CWRT, who managed to make two cuts to the trailing lengths of line with a cutting grapple. Poor weather conditions forced the teams to head back to port. Snow Cone remains partially entangled.

6/8/2021

• The DFO aerial survey team documented Snow Cone in group of other whales, still entangled.

6/12/2021

• The DFO aerial survey team sighted Snow Cone again, and documented what appears to be a small shift in entanglement configuration.

6/13-6/21/2021

• DFO aerial survey teams documented Snow Cone multiple times over the past couple weeks. The entanglement configuration, as well as the condition of the whale, remain unchanged.

7/8/2021

• DFO aerial survey teams sighted Snow Cone again, revealing a significant shift in entanglement configuration since the prior sighting. CWRT was responding to an entangled humpback, and switched gears to respond to Snow Cone. The team established a control line, added two buoys, and using the drag from their vessel, parted the entangling line at the grapple connection. This was repeated several times.

7/11/2021

• Snow Cone was sighted again by DFO aerial survey teams.

8/4/2021

• Scientists from the University of New Brunswick sighted and collected drone footage of Snow Cone's entanglement. CWI and NEAq field teams completed preliminary photo-ID from this recent field work.

10/24/2021

• NEFSC documented Snow Cone south of Nantucket during an aerial survey, with a possible shift in entanglement configuration.

11/6/2021

• The CCS aerial survey team documented Snow Cone, but due to time of day and distance, no response was mounted.

12/2/2021

• The FWRI aerial survey team found Snow Cone, still entangled, with a calf. FWRI and GA DNR responded to gain additional documentation of the pair. This is the first documented chronically entangled right whale carrying a calf to term. Throughout the following week, sightings of the pair continued from the Clearwater Marine Aquarium Institute's aerial team.

12/17/2021

• Recreational boaters off of Florida cut one of the lengths of line exiting the side of Snow Cone's mouth. She was sighted later in the day, as well as the following day by the FWC aerial team.

12/27/2021 and 12/29/2021

• Snow and her calf have been sighted regularly off of Florida and Georgia, and her entanglement configuration appears to be changing.

1/19/2022

• Regular sightings continued of Snow Cone and her calf. During this sighting, FWRI was able to obtain important additional documentation of the wounds and entanglement.

2/17/2022

• The Marineland Right Whale Project obtained additional drone documentation of Snow Cone and her calf.

4/23/2022-4/27/2022

• Snow Cone and her calf were sighted the last couple days by the CCS aerial survey team, back up off the coast of Massachusetts. Unsuccessful relocation efforts and poor conditions prevented responses from being mounted. On 4/25/2022, the CCS response and aerial teams sighted the pair, and considered using a cutting arrow aimed at the line exiting her bonnet and entering the baleen, but no good opportunities arose. Efforts were called off due to worsening sea conditions, but with the right conditions and behavior of the whale, this could be a viable option for future responses. On 4/27/2022, Marine Mammal Observers had a sighting of Snow Cone off of Provincetown, but poor conditions prevented a response.

7/22/2022

• Snow Cone was sighted by a CWI/NEAq boat-based survey on the Shediac Valley, without her calf.

9/21/2022

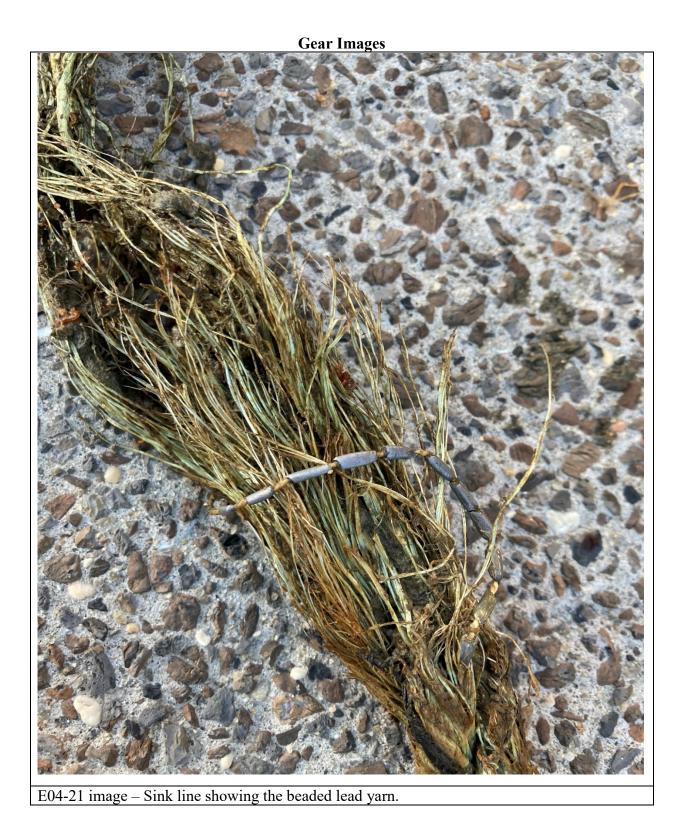
• The NEAq aerial survey sighted Snow Cone south of Nantucket, with additional gear in tow. Due to the time of day and distance, the CCS team was unable to respond.

| Description of Gear on Whale as Reported: | | |
|---|--|--|
| During Initial Sighting: | Subsequent Descriptions: During the 3/12/2021 partial | |
| Two lengths of line exiting | disentanglement, it was possible the rope was no longer present | |
| the left side of the mouth, | in the wrapping wounds along the bonnet. On 5/10/2021, the | |
| trailing aft. One length of | entanglement configuration remains unchanged. The following | |
| line terminated about 60 | day, after disentanglement efforts by CWRT, She was left with | |
| feet aft of the flukes, while | line still exiting her mouth, one length trailing about 20feet aft of | |
| the other trailed over 160 | the flukes and the other trailing to her tailstock. On $6/12/2021$, | |
| feet aft before sinking | the entanglement appears to have moved slightly up her flank. | |
| down into the water | On 7/8/2021, the longer trailing section gained length and the | |
| column. Both lengths of | shorter section diminished. The bitter end of the shorter length of | |
| line appeared to be clean | line had caught the longer length, forming a loose loop at the | |
| and knot-less and remained | area of her left flipper. An additional 20ft of line was removed | |
| separate (not twisted). | during this disentanglement effort. During the 8/4/2021 sighting, | |
| | the loop around the pectoral fin appears to have resolved itself. | |
| | The two bitter ends look to be of about equal length, and may be | |
| | jumbled together creating a bridle, but that is unconfirmed. On | |
| | 10/24/2021, the shorter portion of line now appears to have | |
| | moved a little closer to the whale's mouth, as well as a wrap | |
| | around the baleen plates on the right side of the mouth, 12/17/2021 d | |
| | confirming previous suspicions. On 12/17/2021, the recreational | |
| | boaters cut short one length of line exiting the left side of the | |
| | mouth, creating a clean bitter end. On 12/27/2021, the trailing | |
| | lines that had been exiting her right mouth became difficult to | |
| | see, with one bitter end floating toward the surface at her left | |
| | flank (the overall configuration could not be discerned). On 12/29/2021, both trailing lengths could be seen, with one exiting | |
| | the apex of the left mouthline (as it has been for the last few | |
| | weeks) and one now exiting the right side of her mouth, just | |
| | weeks) and one now exiting the right side of her mouth, just | |

| above her eye. During the $1/19/2022$ sighting, teams were able |
|--|
| to document a piece of line exiting the wound on her rostrum, |
| providing supporting evidence that the rostrum wrap is deeply |
| embedded. During the 4/24/2022 sighting, imagery collected |
| shows the wrap of rope around her bonnet is not a simple wrap, |
| but complicated by the baleen at the front of her mouth, as well |
| as a weave of line through the baleen. On 9/21/2022, additional |
| gear was observed in addition to the original entangling gear. |
| The new gear includes one or more lengths of line caught in her |
| mouth and trailing aft of her flukes. Just aft of the flukes there |
| appears to be weighted gear. Some of this gear may interact with |
| her left flipper. |

| Description of Wounds/Condition: | | |
|----------------------------------|--|--|
| During Initial Sighting: | Subsequent Descriptions: On 5/10/2021, her condition | |
| Fair condition, good skin | appeared to be declining, with graying skin and sloughing. On | |
| color and reasonable body | 7/8/2021, her overall condition appeared to be improving, with | |
| condition. Two wrapping | teams witnessing defecation. During the 8/4/2021 | |
| wounds present along the | documentation, Snow Cone's overall condition appeared good. | |
| rostrum, one healed while | During the 11/6/2021 sighting, there appeared to be an increase | |
| the other was active. The | in cyamid load on the callosity of the whale compared to | |
| active wound at the bonnet | previous sightings. On 12/2/2021, despite carrying a calf to term, | |
| likely has a deeply | there was no obvious decline in her health. On 2/17/2022, the | |
| embedded line. Behavior | skin around the mouth seemed somewhat grayer with more | |
| was similar to other whales | cyamids. During the 4/24/2022 sighting, Snow Cone appeared | |
| in the area, traveling and | thinner and the wound on her rostrum was more apparent. On | |
| feeding. | 4/25/2022 when the pair were documented again, Snow Cone's | |
| | overall condition was poor, and she was noticeably thinner than | |
| | other mom/calf pairs. On 7/22/2022, Snow Cone was sighted | |
| | without her calf, and appeared thinner with further discoloration | |
| | of the rostrum. During the 9/21/2022 sighting, it was apparent | |
| | that Snow Cone's health and condition had declined | |
| | significantly. | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|---------|
| NMFS No. | E04-21 | Gear Recovered (y/n) | Yes |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | 5/8" | Gear Part | Rope |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Unknown | | |
| Gear Description: | As of October 2023, NMFS has only analyzed gear retrieved from operations in U.S. waters and not from Canadian waters. U.S. collected gear includes approximately 31 fathoms of 5/8" sink line with beaded lead yarn and 18 fathoms of 5/8" float line. No gear marking was found on the recovered line. | | |
| Comments: | None. | | |
| Conclusions: | The whale was entangled in rope of unknown origin. | | |



²⁰²¹ Atlantic Large Whale Entanglement Report - Page 18

| NMFS No: E05-21 | Date First Observed Entangled: 5/7/2021 | |
|---|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 15.4 NM southeast of Gloucester, MA | Entangled: | |
| | 42° 23.9' N, 70° 25.3' W | |
| Initial Movement (Anchored/Free): Free- | Status: Gear Shed | |
| swimming | | |
| Sighting prior to entanglement: Unknown Re-sightings Post-entanglement: 7/11/2021 | | |
| Whale Biology: Live humpback whale, 2021 calf of Jabiru, unknown sex | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | |

Event Description:

5/7/2021

• Multiple whale watch naturalists sighted the calf of Jabiru with an entanglementrelated injury, but it was unclear at that time if gear was involved. The CCS response team was unable to relocate the whale.

5/16/2021

• WW vessel re-sighted and documented this whale, confirming that entangling gear was present.

5/17/2021

• The CCS team re-located the mom and calf pair, and obtained additional documentation of the wounds and entangling gear. With no option to establish a control line, the team opted to use cutting arrows to try and sever the collar of rope, and allow the whale's immune system to reject the rope. Despite multiple efforts throughout the day, attempts at cutting the rope were unsuccessful.

7/4/2021

• WW Naturalists sighted Jabiru and her calf, with no apparent changes in health or entanglement configuration.

7/10/2021

• WW vessel sighted the pair in the afternoon and reported it to the CCS response team. The following morning, the same vessel sighted the pair again and the CCS team was also searching the area, and responded. Based on the documentation collected, the team feels reasonably confident the embedded gear is no longer present.

| Description of Gear on Whale as Reported: | | |
|--|--|--|
| During Initial Sighting: Originally reported | Subsequent Descriptions: On 7/4/2021, the | |
| as an entanglement-related injury, but could | entanglement still remained unclear, with no | |
| not confirm if any gear was present. On | gear visible in the wounds, and no possible | |
| 5/16/2021 it was confirmed there was deeply | documentation of the chest area. During the | |
| embedded entangling gear forward on the | 7/11/2021 sighting, gear was no longer | |
| body, encircling the whale. No rope was | visible in the chest wound, suggesting the | |
| visible due to degree of embedding, except at | calf was able to shed its entanglement. | |
| the chest, where a small jumble of orange rope | | |
| could be seen exiting a wound. | | |

| Description of Wounds/Condition: | | |
|---|--|--|
| During Initial Sighting: Behaving normally, | Subsequent Descriptions: On 7/4/2021, the | |
| fluking and breaching. Very good body | health and behavior of the calf still appeared | |
| condition. Wounds appear clean and | normal, despite the severity of the | |
| indentation was easily visible where rope was | entanglement. On 7/11/2021, the calf still | |
| pinching into the whale. | appeared to be in good condition and | |
| | behaving normally, with no obvious wound | |
| | discoloration. | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|---------|
| NMFS No. | E05-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Rope |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Rope | | |
| Gear Description: | Photographs showed a rope around the body with no distinguishing | | |
| | markings. | | |
| Comments: | None. | | |
| Conclusions: | The whale was entangled in rope of unknown origin. | | |

| NMFS No: E06-21 | Date First Observed Entangled: 6/6/2021 | |
|--|---|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 4.6 NM north of North Truro, MA | Entangled: | |
| | 42° 08' N, 70° 05' W | |
| Initial Movement (Anchored/Free): Free- | Status: Entangled | |
| swimming | | |
| Sighting prior to entanglement: Unknown Re-sightings Post-entanglement: None | | |
| Whale Biology: Live minke whale, unknown ID and life history | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury (Prorated) | | |

Event Description:

6/6/2021

• A charter vessel discovered an entangled whale and reported the sighting to CCS, but it was lost before CCS arrived on scene. The response team searched the area, but were unable to relocate.

6/11/2021

• WW naturalists had a brief sighting of this whale, still entangled.

| Description of Gear on Whale as Reported: | | |
|---|-------------------------------|--|
| During Initial Sighting: Large jumble of | Subsequent Descriptions: None | |
| rope on the back, forward the dorsal fin. | | |

| Description of Wounds/Condition: | |
|--|--|
| During Initial Sighting: None noted. Subsequent Descriptions: None | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|---|----------------------|---------|
| NMFS No. | E06-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Rope |
| Fishery Mark | No | ALWTRP Color | N/A |
| Recovered/Documented | | | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Unknown rope | | |
| Gear Description: | Photograph showed a bundle of rope on the back. | | |
| Comments: | None. | | |
| Conclusions: | Whale was entangled in rope of unknown origin. | | |

| NMFS No: E07-21 | Date First Observed Entangled: 6/8/2021 | |
|---|---|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 7.6 NM northeast of Race Point, | Entangled: | |
| Provincetown, MA | 42° 10.4' N, 70° 09.8' W | |
| Initial Movement (Anchored/Free): Free- | Status: Disentangled | |
| swimming | | |
| Sighting prior to entanglement: 9/01/2020 Re-sightings Post-entanglement: 6/09/2021 | | |
| Whale Biology: Live humpback whale, Valley, adult female | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | |

Event Description:

6/8/2021 Whale watch vessel reported an entangled whale to CCS, and switched off standing by with another whale watch until CCS could arrive on scene. The team worked aboard R/V Ibis and established a control line, working their way up to make a secure A4 buoy attachment, and removed the rope and buoy aft this attachment. Due to worsening weather, the team deployed a telemetry buoy. Once a secure attachment was established, the team continued documentation to inform future response efforts before standing down.

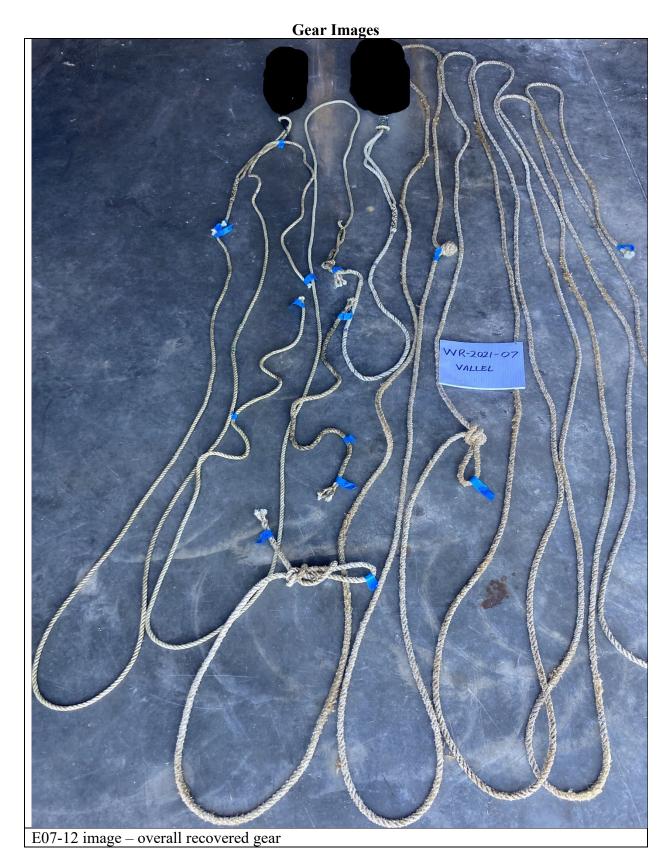
6/9/2021

• CCS tracked the whale overnight, and she was sighted again by a commercial fishermen, who reported that the entangling gear snagged on another fisherman's gear. CCS relocated the whale and opted to use the inflatable to cut the anchoring line exiting her mouth with a pole and fixed knife, as grappling into the anchoring gear would be quite difficult. Now that it was believed she only had a pass of rope through her mouth, with a clean bitter end on the left side, and the telemetry on the right, they then tried to add more drag to the telemetry side by attaching an A5 buoy closer to the flukes. With little results, the team switched gears and opted to try a sea anchor, which pulled the remaining rope from her mouth. The team in the inflatable collected the gear while the team onboard the R/V Ibis followed Valley to confirm she was gear free.

| Description of Gear on Whale as Reported: | | |
|---|---|--|
| During Initial Sighting: Buoy would surface | Subsequent Descriptions: During the | |
| when the whale did, trailing roughly 100 feet | 6/9/2021 approaches from the inflatable, the | |
| aft of her flukes. Hard-shell pill buoy was | team observed line exiting the right mouth of | |
| attached further down the entangling rope at | the whale headed over her back, passing | |
| depth. Rope was fouled. | under her body and headed to the telemetry | |
| | buoy. Rope exiting deep in the gape of | |
| | Valley's left mouth below the eye was also | |
| | visible. This rope appeared to be weighted | |
| | and headed straight down, under the whale's | |
| | body. | |

| Description of Wounds/Condition: | | |
|---|--------------------------------|--|
| During Initial Sighting: Skinny in appearance. Traveling slowly and relatively calm behavior | Subsequent Descriptions: None. | |
| calm behavior. | | |

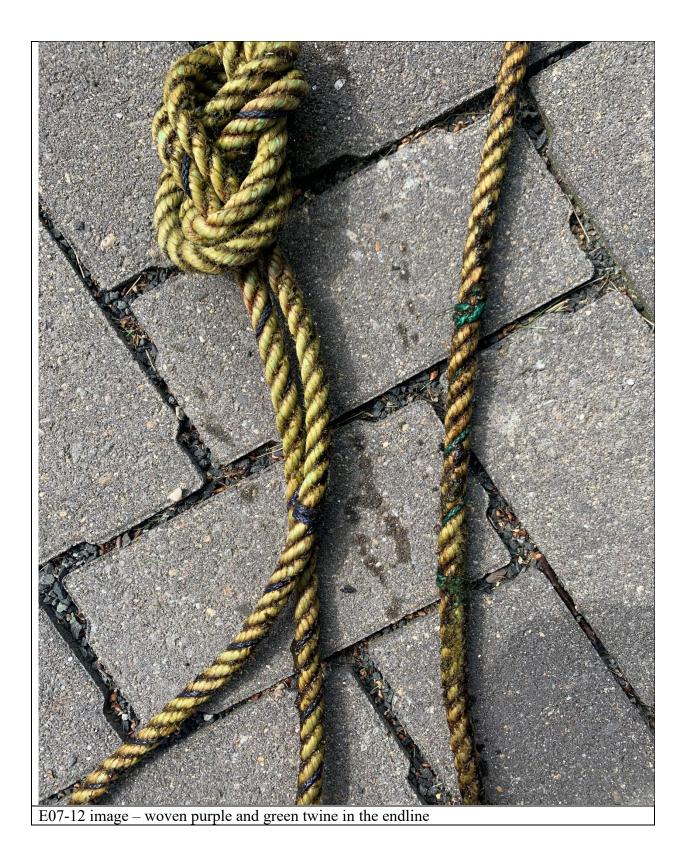
| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|---|-------------------------|----------------|
| NMFS No. | E07-21 | Gear Recovered (y/n) | Yes |
| Date Set | Unknown but recent | Date Lost | Unknown |
| Line Diameter | 3/8" and ½" | Gear Part | Surface |
| | | | system and |
| | | | endline |
| Fishery Mark | Yes | Fishery Mark Origin and | Purple and |
| Recovered/Documented | | Color | Green – ME |
| | | | federal |
| Target Species | Lobster | Location of set | Northern |
| | | | Jeffries Ledge |
| Gear Type | U.S. Lobster – Maine Federal | | |
| Gear Description: | Recovered gear consisted of 27.5 fathoms of line; 7.5 fathoms of | | |
| | $3/8$ " sink off the pickup buoy and 20 fathoms of $\frac{1}{2}$ " sink off the | | |
| | GoDeep buoy. Two sets of purple (1 fathom each) and green (6 | | |
| | inches each) fishery ID marks. | | |
| Comments: | Fisherman typically uses 15-18 trap trawls. Buoy lines are typically | | |
| | half float and half sink. His best estimate for when the gear was set | | |
| | was after the entanglement sighting date, suggesting the gear was | | |
| | recently set. | | |
| Conclusions: | Whale was entangled in the endline of a Maine federal lobster trawl. | | |



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E07-12 image – close up of recovered woven purple twine in the endline



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| NMFS No: E08-21 | Date First Observed Entangled: 6/24/2021 | |
|--|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 11.1 NM east of Eastham, MA | Entangled: | |
| | 41° 49.0' N, 69° 41.5' W | |
| Initial Movement (Anchored/Free): Free- | Status: Monitor, likely gear shed | |
| swimming | | |
| Sighting prior to entanglement: 9/25/2020 Re-sightings Post-entanglement: None | | |
| Whale Biology: Live humpback whale, Cat Eyes, adult male | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | |

Event Description:

The CCS Humpback Whale Studies Program was on a research cruise and came across a whale with monofilament mesh on the pectoral flipper.

| Description of Gear on Whale as Reported: | | |
|---|--------------------------------|--|
| During Initial Sighting: Small piece of monofilament netting hanging from a barnacle on the tip of the right pectoral flipper. | Subsequent Descriptions: None. | |

| Description of Wounds/Condition: | | |
|--|--|--|
| During Initial Sighting: None noted.Subsequent Descriptions: None. | | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|--------------|
| NMFS No. | E08-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | N/A | Gear Part | Monofilament |
| | | | mesh |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Mesh of unknown origin. | | |
| Gear Description: | Documentation showed a small section of monofilament mesh on | | |
| | the tip of one pectoral flipper. | | |
| Comments: | None. | | |
| Conclusions: | Whale was entangled in monofilament mesh of unknown origin. | | |

| NMFS No: E09-21 | Date First Observed Entangled: 6/28/2021 | |
|---|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 13.8 NM northeast of Rockport, MA | Entangled: | |
| | 42° 46.8' N, 70° 19.6' W | |
| Initial Movement (Anchored/Free): Free- | Status: Gear shed | |
| swimming | | |
| Sighting prior to entanglement: 6/20/2021 | Re-sightings Post-entanglement: 7/15/2021 | |
| Whale Biology: Live humpback whale, Clamp, adult female | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | |

Event Description:

6/28/2021

• Whale watch naturalists sighted a whale with monofilament line trailing. 7/15/2021

• Whale was sighted gear free.

| Description of Gear on Whale as Reported: | | |
|--|--------------------------------|--|
| During Initial Sighting: Monofilament line running vertically over the left flank aft of the dorsal. Point of attachment unknown. | Subsequent Descriptions: None. | |

| Description of Wounds/Condition: | | |
|--|--|--|
| During Initial Sighting: None noted. Subsequent Descriptions: None | | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|---|-------------------------|--------------|
| NMFS No. | E09-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Monofilament |
| | | | line |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | U.S. monofilament line | | |
| Gear Description: | Whale was documented with monofilament line trailing. | | |
| Comments: | The pre-entanglement sighting indicated the entanglement was of | | |
| | U.S. origin. | | |
| Conclusions: | Whale was entanglement in unknown monofilament of U.S. origin. | | |

| NMFS No: E10-21 | Date First Observed Entangled: 6/29/2021 | |
|---|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 14.3 NM southeast of Block Island, RI | Entangled: | |
| | 41° 01.0' N, 71° 17.2' W | |
| Initial Movement (Anchored/Free): Free- | Status: Entangled | |
| swimming | | |
| Sighting prior to entanglement: UnknownRe-sightings Post-entanglement: None | | |
| Whale Biology: Live humpback whale, unknown ID and life history | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury (Prorated) | | |

Event Description: Network members were alerted by a fishermen of an entangled humpback. No photos were taken, and due to the time of day, distance, and forecasted weather, no response was mounted.

| Description of Gear on Whale as Reported: | | |
|---|--------------------------------|--|
| During Initial Sighting: Described by fisher as being wrapped in netting, with flukes possibly involved. | Subsequent Descriptions: None. | |

| Description of Wounds/Condition: | |
|--|--|
| During Initial Sighting: None noted.Subsequent Descriptions: None. | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|--------------|
| NMFS No. | E10-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Mesh/netting |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Unknown mesh/netting | | |
| Gear Description: | Reporter described the whale being wrapped in mesh/netting. | | |
| Comments: | Experienced responders interviewed the reporter and felt confident | | |
| | on the species identification and gear description despite no | | |
| | documentation. | | |
| Conclusions: | Whale was entangled in mesh/netting of unknown origin. | | |

| NMFS No: E11-21 | Date First Observed Entangled: 7/4/2021 | |
|--|---|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 1.1 NM west of Point Judith, RI | Entangled: | |
| | 41° 22.1' N, 71° 31.2' W | |
| Initial Movement (Anchored/Free): Free- | Status: Deceased | |
| swimming | | |
| Sighting prior to entanglement: Unknown Re-sightings Post-entanglement: None | | |
| Whale Biology: Dead minke whale, unknown ID, juvenile male | | |
| NMFS Serious Injury/Mortality Determination: Mortality | | |

Event Description:

A boater reported to USCG a dead floating whale entangled in gear. The following morning, USCG relocated and towed to shore. RI DEM collected the gear, and a necropsy was conducted on the carcass the next day by Mystic Aquarium and AMSEAS.

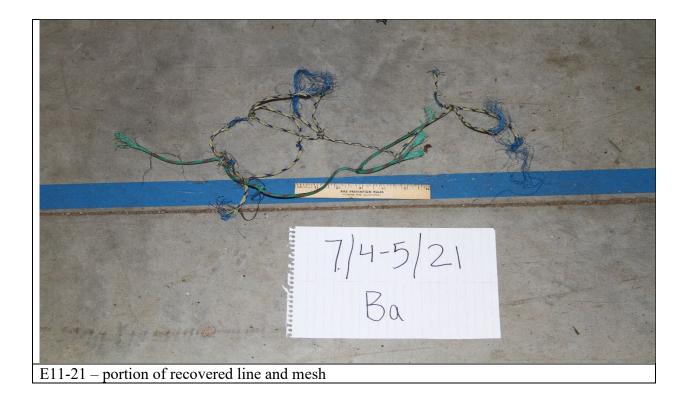
| Description of Gear on Whale as Reported: | | |
|---|--------------------------------|--|
| During Initial Sighting: Mouth | Subsequent Descriptions: None. | |
| entanglement, consisting of a mass of different | | |
| colored ropes, mesh, and debris. | | |
| | | |

| Description of Wounds/Condition: | | |
|-------------------------------------|---|--|
| During Initial Sighting: Moderately | Subsequent Descriptions: Necropsy revealed | |
| decomposed. | a fair body condition, with external linear | |
| | impressions and internal hemorrhaging. | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|-----------------------|
| NMFS No. | E11-21 | Gear Recovered (y/n) | Yes |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | 3/16" and 1/4" | Gear Part | Line, mesh, debris |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Unknown line, mesh and debris. | | |
| Gear Description: | The recovered gear was a bundle of $3/16$ " to $\frac{1}{4}$ " floating poly rope. Tangled mess of 5 $\frac{1}{2}$ " green webbing. Broken mesh from mobile gear and a mesh produce bag. | | |
| Comments: | The recovered gear is a combination of a number of different gear sets and debris. | | |
| Conclusions: | Whale was entangled in gear and debris from multiple sources including fishing gear and marine debris, of unknown origin. | | |

Gear Images







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| NMFS No: E12-21 | Date First Observed Entangled: 7/7/2021 | |
|---|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 12.9 NM northeast of Race Point, | Entangled: | |
| Provincetown, MA | 42° 23.8' N, 70° 21.4' W | |
| Initial Movement (Anchored/Free): Free- | Status: Disentangled – gear shed | |
| swimming | | |
| Sighting prior to entanglement: 7/01/2021 | Re-sightings Post-entanglement: 8/8/2021 | |
| Whale Biology: Live humpback whale, 2021 calf of Dross, unknown sex | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | |

Event Description:

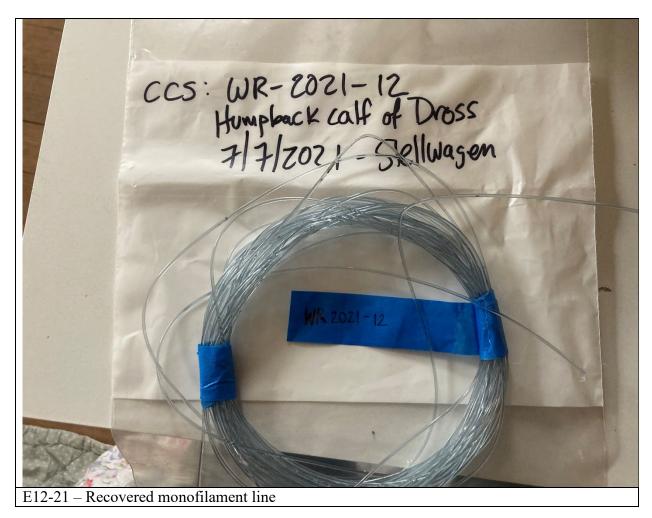
Whale watch boat sighted Dross and her calf, and noticed the calf was behaving abnormally. They confirmed it was entangled, reported the sighting to CCS, and stood by with other whale watch vessels until the response team could arrive. Using a pole with a fixed knife attached, the team made multiple attempts to sweep behind the animal to try and shorten any line. Although the team could not see or feel if a cut was made, some line on the animal was no longer visible, and they did observe a bitter end. They were able to make another cut to the other side, leaving the calf with line that presumably runs through the mouth, with two clean bitter ends. CCS recovered the cut line and it is expected that the calf will shed the remaining gear.

| Description of Gear on Whale as Reported: | | | |
|--|--------------------------------|--|--|
| During Initial Sighting: Monofilament line passing down the left flank and going up and over the peduncle. Presumed to originate in | Subsequent Descriptions: None. | | |
| the mouth. | | | |

| Description of Wounds/Condition: | | | |
|---|--------------------------------|--|--|
| During Initial Sighting: Agitated and | Subsequent Descriptions: None. | | |
| swimming with mouth wide open. Increasing | | | |
| speed and reacting strongly to close | | | |
| approaches/being touched by the pole. | | | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|--------------|
| NMFS No. | E12-21 | Gear Recovered (y/n) | Yes |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | N/A | Gear Part | Monofilament |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | U.S. monofilament line | | |
| Gear Description: | Nine fathoms of monofilament line were recovered. | | |
| Comments: | Whales were sighted 6 days prior gear free. | | |
| Conclusions: | Whale was entangled in monofilament line of U.S. origin. | | |

Gear Images



| NMFS No: E13-21 | Date First Observed Entangled: 7/13/2021 | |
|--|---|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 32.6 NM northeast of Sainte Marie - Saint | Entangled: | |
| Raphael, CA | 47° 55.3' N, 63° 47.1' W | |
| | | |
| Initial Movement (Anchored/Free): Free- | Status: Entangled | |
| swimming | | |
| Sighting prior to entanglement: 7/13/2021 | Re-sightings Post-entanglement: None | |
| Whale Biology: Live right whale, #4615 Hercules, juvenile male | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury | | |

Event Description:

7/13/2021

• The Gulf Rescue Team discovered an entangled right whale that NEAq identified as Hercules, who had been sighted by CWI gear-free just a few hours earlier. The whale's behavior also suggested this was a recent entanglement with heavy gear involved. CWI, CWRT and others were nearby and opted to attach telemetry given the time, whale behavior, and resources available. Using a grapple, the team attached the telemetry buoy to the trailing gear. The tag transmitted for several hours after, but stopped in the early hours of the following day.

7/14/2021

• DFO C&P/ TC searched for and relocated the whale, but sea conditions were too rough for a response. The entanglement configuration appears to have changed. With no additional hits on the telemetry tag, the buoy was likely been pulled under.

9/13/2021

• The telemetry buoy began transmitting again for two days, but it cannot be confirmed that it is still attached to the whale. DFO and CWRT were notified and planned to search the area.

| Description of Gear on Whale as Reported: | | |
|--|---|--|
| During Initial Sighting: The whale had bitten | Subsequent Descriptions: On 7/14/2021, | |
| down on a single piece of rope. The rope | The peduncle wrap was no longer present. | |
| exiting the left side of the mouth traveled over | The bridle through the mouth was still there, | |
| the head just in front of the blowholes and | heading down to weighted gear. | |
| twisted with the rope exiting the right mouth, | | |
| forming a bridle at the right mouth. This | | |
| twisted rope traveled under the right | | |
| flipper/body. At the flukes the ropes | | |
| separated, with one length forming a loose | | |
| loop, the other cinched tight over the tailstock. | | |
| From there the ropes trailed aft with one | | |
| potentially going to weight. | | |

| Description of Wounds/Condition: | | |
|---|--------------------------------|--|
| During Initial Sighting: Whale's behavior was violent, with frequent thrashing, head raises, and rolling. Wounds actively bleeding where rope was in contact with the skin. | Subsequent Descriptions: None. | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|---|-------------------------|---------|
| NMFS No. | E13-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Rope |
| ALWTRP Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Canadian unknown rope | | |
| Gear Description: | Rope was described as being large diameter. | | |
| Comments: | The animal was seen gear free hours earlier. | | |
| Conclusions: | Whale was entangled in rope of Canadian origin. | | |

| NMFS No: E14-21 | Date First Observed Entangled: 7/13/2021 | |
|---|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 7.3 NM northwest of Race Point, | Entangled: | |
| Provincetown, MA | 42° 09.6' N, 70° 20.7' W | |
| Initial Movement (Anchored/Free): Free- | Status: Gear Shed | |
| swimming | | |
| Sighting prior to entanglement: 7/11/2021 Re-sightings Post-entanglement: 8/07/2021 | | |
| Whale Biology: Live humpback whale, Shuffleboard, adult female | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | |

Event Description: Whale watch naturalists observed a humpback whale with monofilament line trailing off the right fluke blade.

| Description of Gear on Whale as Reported: | |
|--|-------------------------------|
| During Initial Sighting: Monofilament line snagged on a barnacle on the right fluke tip and trailing aft. | Subsequent Descriptions: None |

| Description of Wounds/Condition: | |
|--------------------------------------|--------------------------------|
| During Initial Sighting: None noted. | Subsequent Descriptions: None. |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|---|-------------------------|--------------|
| NMFS No. | E14-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Monofilament |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | U.S. monofilament line | | |
| Gear Description: | Whale was documented with monofilament line. | | |
| Comments: | Pre-entanglement sighting was two days prior. | | |
| Conclusions: | Whale was entangled in monofilament line of U.S origin. | | |

| NMFS No: E15-21 | Date First Observed Entangled: 7/14/2021 | |
|--|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 6.5 NM northwest of Race Point, | Entangled: | |
| Provincetown, MA | ~ 42° 9' N, 70° 20' W | |
| Initial Movement (Anchored/Free): Free- | Status: Monitor | |
| swimming | | |
| Sighting prior to entanglement: 7/14/2021 Re-sightings Post-entanglement: None | | |
| Whale Biology: Live humpback whale, unknown ID, adult, unknown sex | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury (Prorated) | | |

Event Description:

Whale watch naturalists witnessed a whale interact with fishing gear being actively fished by a rod and reel fisher. The naturalists were unable to collect photos.

| Description of Gear on Whale as Reported: | |
|--|--------------------------------|
| During Initial Sighting: Monofilament line involved, unknown point of attachment. | Subsequent Descriptions: None. |

| Description of Wounds/Condition: | |
|--------------------------------------|--------------------------------|
| During Initial Sighting: None noted. | Subsequent Descriptions: None. |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|---|-------------------------|--------------|
| NMFS No. | E15-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Monofilament |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | U.S. monofilament line | | |
| Gear Description: | Monofilament line from rod and reel fisherman. | | |
| Comments: | Whale was witnessed interacting with line. | | |
| Conclusions: | Whale was entangled in rod and reel monofilament line of U.S. | | |
| | origin. | | |

| NMFS No: E16-21 | Date First Observed Entangled: 7/19/2021 | |
|---|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 4.3 NM east of Gloucester, MA | Entangled: | |
| | ~42° 37, 70° 30 | |
| Initial Movement (Anchored/Free): Free- | e): Free- Status: Gear Shed | |
| swimming | | |
| Sighting prior to entanglement: 7/16/2021 Re-sightings Post-entanglement: 7/28/20 | | |
| Whale Biology: Live humpback whale, Mogul, adult, contact CCS for sex ID | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | |

| Event Description: | |
|---|--|
| Whale watch naturalists sighted Mogul with monofilament in tow. This whale was sighted | |
| several times by whale watch boats throughout the following weeks, and it appears Mogul was | |
| able to shed the entanglement. | |

| Description of Gear on Whale as Reported: | |
|--|--|
| During Initial Sighting: Monofilament line streaming from the left fluke blade. | Subsequent Descriptions: No gear observed. |

| Description of Wounds/Condition: | |
|--------------------------------------|--------------------------------|
| During Initial Sighting: None noted. | Subsequent Descriptions: None. |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|--------------|
| NMFS No. | E16-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Monofilament |
| | | | line |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | U.S. monofilament line | | |
| Gear Description: | Whale was documented with monofilament line over the left fluke. | | |
| Comments: | Pre-entanglement sighting was three days prior. | | |
| Conclusions: | Whale was entangled in monofilament line of U.S. origin. | | |

| NMFS No: E17-21 | Date First Observed Entangled: 7/27/2021 | |
|---|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 3.0 NM northwest of Brier Island, NS | Entangled: | |
| | 44° 18.9' N, 66° 24.3' W | |
| Initial Movement (Anchored/Free): Free- | Status: Monitor | |
| swimming | | |
| Sighting prior to entanglement: 7/24/2021 Re-sightings Post-entanglement: Unknown | | |
| Whale Biology: Live humpback whale, Sedge, adult male | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | |

Event Description: Naturalist aboard a whale watch vessel reported and photographed the whale Sedge with monofilament attached.

| Description of Gear on Whale as Reported: | |
|---|--------------------------------|
| During Initial Sighting: Monofilament line trailing over the right fluke blade. Point of attachment unclear. | Subsequent Descriptions: None. |

| Description of Wounds/Condition: | |
|---|--------------------------------|
| During Initial Sighting: Appeared agitated. | Subsequent Descriptions: None. |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|---|-------------------------|--------------|
| NMFS No. | E17-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Monofilament |
| | | | line |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Monofilament line | | |
| Gear Description: | Whale was documented with monofilament line | | |
| Comments: | Pre-entanglement sighting was three days prior. | | |
| Conclusions: | Whale was entangled in monofilament line of unknown origin. | | |

| NMFS No: E18-21 | Date First Observed Entangled: 7/28/2021 | |
|---|---|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 15.3 NM east of Gloucester, MA | Entangled: | |
| | 42° 32.7' N, 70° 16.1' W | |
| Initial Movement (Anchored/Free): Free- | Status: Gear shed | |
| swimming | | |
| Sighting prior to entanglement: 7/27/2021 | Re-sightings Post-entanglement: | |
| | 10/07/2021 | |
| Whale Biology: Live humpback whale, Crisp, adult female | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | |

| Event Description: | |
|--|--|
| Whale watch naturalists documented a humpback with monofilament line trailing. | |

| Description of Gear on Whale as Reported: | |
|--|--------------------------------|
| During Initial Sighting: Monofilament line trailing over the left fluke blade. Unknown point of attachment. | Subsequent Descriptions: None. |

| Description of Wounds/Condition: | |
|--------------------------------------|--------------------------------|
| During Initial Sighting: None noted. | Subsequent Descriptions: None. |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|---|-------------------------|--------------|
| NMFS No. | E18-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Monofilament |
| | | | line |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | U.S. monofilament line | | |
| Gear Description: | Whale was documented with monofilament line trialing off the left | | |
| | fluke. | | |
| Comments: | Pre-entanglement sighting was one day prior. | | |
| Conclusions: | Whale was entangled in monofilament line of U.S. origin. | | |

| NMFS No: E19-21 | Date First Observed Entangled: 8/1/2021 | |
|---|---|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| Off Phippsburg, ME | Entangled: | |
| | 43° 41.5' N, 69° 42.4' W | |
| Initial Movement (Anchored/Free): | Status: Deceased | |
| Anchored | | |
| Sighting prior to entanglement: Unknown | Re-sightings Post-entanglement: None | |
| Whale Biology: Dead minke whale, unknown ID, adult female | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury | | |

Event Description:

With the assistance of MMP, MMoME responded to a floating entangled minke carcass. Documentation and samples from the whale were collected. The carcass was towed and transported to a compost site several days later.

| Description of Gear on Whale as Reported: | | |
|--|--------------------------------|--|
| During Initial Sighting: Lines wrapped around the left pectoral flipper/axillary region. Two buoys in association with these lines, along with a third buoy wrapped around the tailstock. | Subsequent Descriptions: None. | |

| Description of Wounds/Condition: | |
|--|--------------------------------|
| During Initial Sighting: Impression at base | Subsequent Descriptions: None. |
| of tail from associated line. | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|---|-------------------------|----------------------|
| NMFS No. | E19-21 | Gear Recovered (y/n) | No |
| Date Set | 7/28/2021 | Date Lost | Unknown |
| Line Diameter | 3/8" | Gear Part | Surface |
| | | | system and |
| | | | endline |
| Fishery Mark | Yes | Fishery Mark Origin and | Purple – |
| Recovered/Documented | | Color | Maine state |
| Target Species | Lobster | Location of set | \sim 2 miles south |
| | | | of Sequin |
| | | | Island, ME |
| Gear Type | U.S. lobster – Maine state | | |
| Gear Description: | Documentation showed the whale was entangled in the surface | | |
| | system and endline. Fisherman stated they fish 15 trap trawls with | | |
| | the 15 fathoms of 7/16" sink rope between pots and endline that are | | |
| | 3/8" with $3/4$ sink and $1/4$ float rope. | | |
| Comments: | Gear was returned to fisherman and interview was conducted. | | |
| Conclusions: | Whale was entangled in the endline of a 15 lobster trap trawl of U.S. | | |
| | origin. | | |

| NMFS No: E20-21 | Date First Observed Entangled: 8/1/2021 | |
|--|---|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 41.2 NM southeast of Nantucket Island, MA | Entangled: | |
| | 40° 42.0' N, 69° 25.7' W | |
| Initial Movement (Anchored/Free): Free- | Status: Entangled | |
| swimming | | |
| Sighting prior to entanglement: Unknown Re-sightings Post-entanglement: None | | |
| Whale Biology: Live humpback whale, unknown ID and life history | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury | | |

Event Description:

The Northeast AMAPPS aerial survey team encountered an entangled whale and reported the sighting. Due to time of day and distance, no response was possible.

| Description of Gear on Whale as Reported: | | |
|--|--------------------------------|--|
| During Initial Sighting: One bitter end of rope about ten feet aft of the whale's right fluke blade which leads to multiple wraps of the peduncle at the fluke insertion, and at least one wrap of the flukes at the midline. The rope then continues aft of the whale to what is likely another bitter end about two whale lengths behind the flukes. | Subsequent Descriptions: None. | |

| Description of Wounds/Condition: | |
|---|--------------------------------|
| During Initial Sighting: Observed traveling, | Subsequent Descriptions: None. |
| but not fluking. | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|---------|
| NMFS No. | E20-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Unknown |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Unknown line | | |
| Gear Description: | Whale was documented with line and other possible undefined gear | | |
| | parts. | | |
| Comments: | Documentation and orientation of the whale did not offer many | | |
| | insights into the gear type. | | |
| Conclusions: | Whale was entangled in rope and possible undefined gear parts of | | |
| | unknown origin. | | |

| NMFS No: E21-21 | Date First Observed Entangled: 8/4/2021 | |
|--|---|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 14.1 NM north of Race Point, Provincetown, | Entangled: | |
| MA | 42° 17.4' N, 70° 19.1' W | |
| Initial Movement (Anchored/Free): Free- | Status: Gear Shed | |
| swimming | | |
| Sighting prior to entanglement: 8/03/2021 Re-sightings Post-entanglement: 8/7/20 | | |
| Whale Biology: Live humpback whale, Dross, adult female | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | |

| Event Description: | |
|--------------------|--|
| | Whale watch naturalists sighted Dross and her calf, with Dross having monofilament in tow. |

| Description of Gear on Whale as Reported: | | |
|--|--------------------------------|--|
| During Initial Sighting: Monofilament line snagged on a barnacle and trailing off the left fluke blade. | Subsequent Descriptions: None. | |

| Description of Wounds/Condition: | |
|---|--------------------------------|
| During Initial Sighting: Behaving normally. | Subsequent Descriptions: None. |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|--------------|
| NMFS No. | E21-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Monofilament |
| | | | line |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | U.S. monofilament line | | |
| Gear Description: | Whale was documented with monofilament line on the tip of the left | | |
| | fluke. | | |
| Comments: | Pre-entanglement sighting was one day prior. | | |
| Conclusions: | Whale was entangled in monofilament line of U.S. origin. | | |

| NMFS No: E22-21 | Date First Observed Entangled: 8/8/2021 | |
|---|---|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 4.0 NM east of Rockport, MA | Entangled: | |
| | 42° 40.5' N, 70° 30.4' W | |
| Initial Movement (Anchored/Free): Free- | Status: Gear shed | |
| swimming | | |
| Sighting prior to entanglement: 8/06/2021 Re-sightings Post-entanglement: 8/18/2021 | | |
| Whale Biology: Live humpback whale, 2021 calf of Jabiru, unknown sex | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | |

Event Description:

8/8/2021

• Whale watch vessel overheard a fisher reporting an entangled calf to the USCG, and relayed that report to CCS, as did NMFS and USCG. The fisher was unable to standby, so several whale watch vessels took turns standing by while a response was mounted. The whale watch vessels began documenting the mom/calf pair and the calf's entanglement configuration. During standby, the calf dove under one of the whale watch boats while they were out of gear, and the entanglement may have snagged the bottom of the boat. When the calf surfaced, the gear was no longer visible. The whale watch crew collected the snagged gear off the boat. CCS arrived and searched the area in the hopes of confirming the pair to be gear free, but needed to redirect efforts to another entanglement report that came in.

8/18/2021

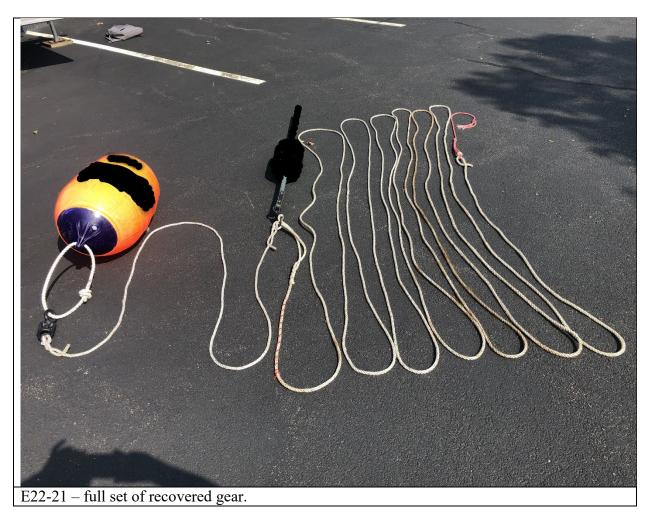
• Jabiru and her calf have been sighted several times over the last week by both whale watch vessels and CCS, and were confirmed to be gear-free.

| Description of Gear on Whale as Reported: | | |
|---|--|--|
| During Initial Sighting: One buoy line from fixed gear looped over the leading edge of the calf's left pectoral, likely held in place by the drag of the gear. Two buoys trailing. | Subsequent Descriptions: The calf is gear free. | |

| Description of Wounds/Condition: | |
|--------------------------------------|--------------------------------------|
| During Initial Sighting: None noted. | Subsequent Descriptions: None noted. |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|---|---|-------------------------|-------------|
| NMFS No. | E22-21 | Gear Recovered (y/n) | Yes |
| Date Set | 8/06/2021 | Date Lost | Unknown |
| Line Diameter | 3/8" | Gear Part | Surface |
| | | | system, |
| | | | endline |
| Fishery Mark | Yes | Fishery Mark Origin and | Red - MA |
| Recovered/Documented | | Color | |
| Target Species | Lobster | Location of set | 42° 40.5' N |
| | | | 70° 30.5' W |
| Gear Type | U.S lobster – Massachusetts state | | |
| Gear Description: | Recovered gear consisted LD3 polyball and bullet buoy attached to | | |
| 600 lbs. weak links leading to 21 fathoms of 3/8" sink rope. Bitter | | | |
| end of recovered buoy line was 3/8" Rocky Mount 1,700 lbs weak | | | |
| | rope. Appropriate ALWTRP color marks and weak insertions were | | |
| | present. | | |
| Comments: | Fisherman was identified and interviewed. The endline and surface | | |
| | system was part of a 20 trap trawl. | | |
| Conclusions: | Whale was entangled in the endline of a 20 trap lobster trawl of U.S. | | |
| | MA state origin. | | |

Gear Images









| NMFS No: E23-21 | Date First Observed Entangled: 8/8/2021 | |
|---|---|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 19.0 NM southeast of Gloucester, MA | Entangled: | |
| | 42° 21.3' N, 70° 22.1' W | |
| Initial Movement (Anchored/Free): Free- | Status: Gear shed | |
| swimming | | |
| Sighting prior to entanglement: 8/07/2021Re-sightings Post-entanglement: 8/9/2021 | | |
| Whale Biology: Live humpback whale, 2021 calf of Dross, unknown sex | | |
| NMFS Serious Injury/Mortality D | NMFS Serious Injury/Mortality Determination: Non-Serious Injury | |

Event Description:

8/8/2021

• A whale watch vessel was observing Dross and her calf, felt that the two were acting abnormally, and discovered the calf had monofilament line in tow. The sighting was reported to CCS, who was currently responding to a different entanglement report. The pair was observed by several whale watch vessels throughout the day. When CCS arrived on scene, they had not been sighted for some time, and despite searching, were not relocated.

8/9/2021

• The pair were observed by whale watch vessels and CCS over numerous days and are confirmed to be gear-free.

| Description of Gear on Whale as Reported: | |
|---|---|
| During Initial Sighting: Line passing over the left fluke blade, under the peduncle and then back over the right fluke blade, trailing aft. | Subsequent Descriptions: Calf is gear free. |

| Description of Wounds/Condition: | | |
|--------------------------------------|--------------------------------|--|
| During Initial Sighting: None noted. | Subsequent Descriptions: None. | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|--------------|
| NMFS No. | E23-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Monofilament |
| | | | line |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | U.S. monofilament line | | |
| Gear Description: | Whale was documented with monofilament line | | |
| Comments: | Pre-entanglement sighting was one day prior. | | |
| Conclusions: | Whale was entangled in monofilament line of U.S. origin. | | |

| NMFS No: E24-21 | Date First Observed Entangled: 8/16/2021 | |
|--|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 33.3 NM southeast of Nantucket Island, MA | Entangled: | |
| | 40° 45.5' N, 69° 37.8' W | |
| Initial Movement (Anchored/Free): Free- | Status: Entangled | |
| swimming | | |
| Sighting prior to entanglement: Unknown Re-sightings Post-entanglement: None | | |
| Whale Biology: Live humpback whale, unknown ID and life history | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury (Prorated) | | |

Event Description:

The CCS aerial survey team was conducting a right whale survey, and upon reviewing images from the flight, discovered that they had also documented an entangled humpback.

| Description of Gear on Whale as Reported: | | |
|--|--------------------------------|--|
| During Initial Sighting: Rope wrapped around the body, just forward of the flippers. Rope trails beneath the whale to at least the flukes. | Subsequent Descriptions: None. | |

| Description of Wounds/Condition: | |
|--------------------------------------|--------------------------------|
| During Initial Sighting: None noted. | Subsequent Descriptions: None. |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|---------|
| NMFS No. | E24-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Unknown |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Unknown rope | | |
| Gear Description: | Whale was documented with rope over the body. | | |
| Comments: | None. | | |
| Conclusions: | Whale was entangled in rope of unknown origin. | | |

| NMFS No: E25-21 | Date First Observed Entangled: 8/29/2021 | |
|--|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 25.8 NM south of Martha's Vineyard, MA | Entangled: | |
| | 40° 55.2' N, 70° 30.2' W | |
| Initial Movement (Anchored/Free): Free- | Status: Entangled | |
| swimming | | |
| Sighting prior to entanglement: Unknown Re-sightings Post-entanglement: None | | |
| Whale Biology: Live finback whale, unknown ID and life history | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury (Prorated) | | |

Event Description:

Marine Mammal Observers sighted an entangled whale and reported it to the NMFS hotline. Due to time of day and distance, no responsible was possible.

| Description of Gear on Whale as Reported: | |
|--|--------------------------------|
| During Initial Sighting: High-flier trailing about a body-length behind the whale. Point of attachment unknown. | Subsequent Descriptions: None. |

| Description of Wounds/Condition: | |
|--------------------------------------|--------------------------------|
| During Initial Sighting: None noted. | Subsequent Descriptions: None. |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|---------------|
| NMFS No. | E25-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Buoy, endline |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Unknown endline and buoy | | |
| Gear Description: | Whale was documented trailing a high flyer buoy. | | |
| Comments: | None. | | |
| Conclusions: | Whale was entangled in a buoy and endline of unknown origin. | | |

| NMFS No: E26-21 | Date First Observed Entangled: 8/30/2021 | |
|--|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 35.9 NM east of Asbury Park, NJ | Entangled: | |
| | 40° 13.0' N, 73° 13.1' W | |
| Initial Movement (Anchored/Free): Free- | Status: Entangled | |
| swimming | | |
| Sighting prior to entanglement: Unknown Re-sightings Post-entanglement: None | | |
| Whale Biology: Live humpback whale, unknown ID and life history | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury | | |

Event Description:

A whale watch vessel encountered an entangled humpback and reported the sighting. Due to sea state, time of day, and distance from shore, no response was possible.

| Description of Gear on Whale as Reported: | | |
|--|--------------------------------|--|
| During Initial Sighting: Gillnet panel including rope, webbing and floats were wrapping the body. Unknown if flippers or other body parts involved, or if there is any trailing gear. | Subsequent Descriptions: None. | |

| Description of Wounds/Condition: | |
|--|--------------------------------|
| During Initial Sighting: Extremely poor | Subsequent Descriptions: None. |
| condition with a heavy load of cyamids. Line | |
| embedded forward of the dorsal fin. | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|----------------------|--------------|
| NMFS No. | E26-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Gillnet mesh |
| | | | panel |
| ALWTRP Mark | No | ALWTRP Color | N/A |
| Recovered/Documented | | | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Gillnet of unknown origin | | |
| Gear Description: | Whale was documented with a gillnet mesh panel, including floats | | |
| | and line over the body. | | |
| Comments: | None. | | |
| Conclusions: | Whale was entangled in a gillnet mesh panel of unknown origin. | | |

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| NMFS No: E27-21 | Date First Observed Entangled: 9/1/2021 | |
|--|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 4.3 NM north of Grand Manan Island, NB | Entangled: | |
| | 44° 52.3' N, 66° 46.0' W | |
| Initial Movement (Anchored/Free): Free- | ree- Status: Entangled | |
| swimming | | |
| Sighting prior to entanglement: Unknown Re-sightings Post-entanglement: None | | |
| Whale Biology: Live finback whale, unknown ID and life history | | |
| NMFS Serious Injury/Mortality Determination: Serious Injury | | |

Event Description: The Grand Manan ferry reported a entangled whale, prompting a response from CWRT, DFO Grand Manan, and DFO C&P. Despite hours of disentanglement efforts, the whale eventually dove and was not resignted.

| Description of Gear on Whale as Reported: | |
|--|-------------------------------|
| During Initial Sighting: Large red navigational or marker buoy tight to the whales head with a chain leading into the left mouth, no trailing line (or chain) was observed. | Subsequent Descriptions: None |

| Description of Wounds/Condition: | | |
|--|--------------------------------|--|
| During Initial Sighting: Fresh wounds on | Subsequent Descriptions: None. | |
| flippers, dorsal fin and tail. Blood observed | | |
| coming out of the right side of the mouth. The | | |
| whale was struggling to surface due to the | | |
| heavily weighted gear. | | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|--|-------------------------|--------------|
| NMFS No. | E27-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Navigational |
| | | | buoy and |
| | | | chain |
| Fishery Mark | No | Fishery Mark Origin and | N/A |
| Recovered/Documented | | Color | |
| Target Species | N/A | Location of set | Unknown |
| Gear Type | N/A – navigational buoy. | | |
| Gear Description: | Whale was document with chain coming out of the mouth and | | |
| | leading to a very large navigational buoy. | | |
| Comments: | None. | | |
| Conclusions: | Whale was entangled in the chain of a very large navigational buoy | | |
| | of unknown origin. | | |

| NMFS No: E28-21 | Date First Observed Entangled: 9/25/2021 | |
|---|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| 14.1 NM east of Hampton Beach, NH | Entangled: | |
| | 42° 51.4' N, 70° 29.8' W | |
| Initial Movement (Anchored/Free): Free- | e- Status: Gear shed | |
| swimming | | |
| Sighting prior to entanglement: 9/13/2021 | anglement: 9/13/2021 Re-sightings Post-entanglement: | |
| | 10/11/2021 | |
| Whale Biology: Live humpback whale, Sword, adult, contact CCS for sex determination | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | |

| Event Description: |
|--|
| Naturalists aboard a whale watch vessel sighted Sword with monofilament line trailing. |

| Description of Gear on Whale as Reported: | | |
|---|--------------------------------|--|
| During Initial Sighting: Hook stuck in the trailing edge of the dorsal fin with monofilament line trailing aft the left fluke blade. | Subsequent Descriptions: None. | |

| Description of Wounds/Condition: | |
|--------------------------------------|--------------------------------|
| During Initial Sighting: None noted. | Subsequent Descriptions: None. |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|---|----------------------|--------------|
| NMFS No. | E28-21 | Gear Recovered (y/n) | No |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | Unknown | Gear Part | Monofilament |
| | | | line |
| ALWTRP Mark | No | ALWTRP Color | N/A |
| Recovered/Documented | | | |
| Target Species | Unknown | Location of set | Unknown |
| Gear Type | Monofilament line | | |
| Gear Description: | Whale was documented with monofilament line coming from the | | |
| | dorsal fin area and trailing over the fluke. | | |
| Comments: | None. | | |
| Conclusions: | Whale was entangled in monofilament line of unknown origin. | | |

| NMFS No: E29-21 | Date First Observed Entangled: | | |
|--|-----------------------------------|--|--|
| | 10/10/2021 | | |
| Location First Observed Entangled: | Latitude/Longitude First Observed | | |
| 1.7 NM west of Monhegan Island, ME | Entangled: | | |
| | 43° 46.2' N, 69° 21.6' W | | |
| Initial Movement (Anchored/Free): | Status: Disentangled | | |
| Anchored | | | |
| Sighting prior to entanglement: Unknown Re-sightings Post-entanglement: None | | | |
| Whale Biology: Live minke whale, unknown ID and life history | | | |
| NMFS Serious Injury/Mortality Determination: Non-Serious Injury | | | |

Event Description:

A boater called in an entangled whale to USCG, who relayed the message to CCS. The NEFSC aerial team was in the area conducting a survey, and were able to assist in relocating the whale and confirming the entanglement. CCS also reached out to MMP for a potential response. Using their small rigid hull vessel, MMP began assessing the entanglement configuration. With dwindling daylight preventing a successful grapple into the descending line, they opted to cut the line going across the back with a flying knife, and then step back to observe any changes in whale behavior or entanglement configuration. With no changes observed, they grappled the gear closer to the surface system, which caused the whale to react and allowed the team to grapple into the descending line. A cut was made forward of the surface system and that gear was retrieved, followed by a cut to the anchoring line close to the whale. The whale swam off with a short piece of line running through the mouth that should be shed quickly.

| Description of Gear on Whale as Reported: | | |
|--|--------------------------------|--|
| During Initial Sighting: Line and buoys | Subsequent Descriptions: None. | |
| entangling the mouth area. Exact | | |
| configuration unclear. Tail and pectoral | | |
| flippers gear free. | | |

| Description of Wounds/Condition: | | |
|--------------------------------------|--------------------------------|--|
| During Initial Sighting: None noted. | Subsequent Descriptions: None. | |

| FISHERY INTERACTION GEAR ANALYSIS | | | |
|-----------------------------------|---|----------------------|---------------|
| NMFS No. | E29-21 | Gear Recovered (y/n) | Yes |
| Date Set | Unknown | Date Lost | Unknown |
| Line Diameter | 3/8" or 7/16" | Gear Part | Buoy and |
| | | | endline |
| ALWTRP Mark | Yes | ALWTRP Color | Purple and |
| Recovered/Documented | | | Green – Maine |
| | | | federal |
| Target Species | Lobster | Location of set | Unknown |
| Gear Type | U.S. lobster – Maine federal | | |
| Gear Description: | Gear was a complete set of triples and was retained by MMP. | | |
| Comments: | Fisherman was identified and interviewed. The three trap trawl | | |
| | consists of an endline of 1/3 float from the bottom and the rest sink | | |
| | of either 3/8" or 7/16". 15 fathoms of 7/16" sink line between traps. | | |
| | Buoys are either bullet buoys with 3' plastic spindle or GoDeep | | |
| | hard plastic buoys. Gear had appropriate ALWTRP color marks. | | |
| Conclusions: | Whale was entangled in the endline and buoy of a U.S. lobster 3 | | |
| | trap trawl from Maine federal waters. | | |

| NMFS No: E30-21 | Date First Observed Entangled: 12/29/2021 | |
|--|--|--|
| Location First Observed Entangled: | Latitude/Longitude First Observed | |
| Off Little Island, VA | Entangled: | |
| | ~36° 42' N, 75° 53' W | |
| Initial Movement (Anchored/Free): Free- | Status: Entangled | |
| swimming | | |
| Sighting prior to entanglement: Unknown Re-sightings Post-entanglement: None | | |
| Whale Biology: Live humpback whale, unknown ID and life history | | |
| NMFS Serious Injury/Mortality Determination: Serious injury | | |

Event Description: Virginia Aquarium received a report of an entangled whale. No response was mounted.

| Description of Gear on Whale as Reported: | | |
|--|--------------------------------|--|
| During Initial Sighting: Blue rope at and around the dorsal fin. Exact configuration unclear. | Subsequent Descriptions: None. | |

| Description of Wounds/Condition: | | | |
|---|--------------------------------|--|--|
| During Initial Sighting: Wounds visible | Subsequent Descriptions: None. | | |
| forward and behind the dorsal fin where the | | | |
| rope appears to be embedding into the skin. | | | |

| FISHERY INTERACTION GEAR ANALYSIS | | | | |
|-----------------------------------|---|----------------------|---------|--|
| NMFS No. | E30-21 | Gear Recovered (y/n) | No | |
| Date Set | Unknown | Date Lost | Unknown | |
| Line Diameter | Unknown | Gear Part | Unknown | |
| ALWTRP Mark | No | ALWTRP Color | N/A | |
| Recovered/Documented | | | | |
| Target Species | Unknown | Location of set | Unknown | |
| Gear Type | Unknown line | | | |
| Gear Description: | Whale was documented with unknown line over the body. | | | |
| Comments: | None. | | | |
| Conclusions: | Whale was entangled in line of unknown origin. | | | |