

Table 6. Confirmed human-caused mortality and serious injury records of Gulf of Maine humpback whales (*Megaptera novaeangliae*), 2006 - 2010.

| Date ^a | Report Type | Age, Sex, ID, Length | Location ^a | Assigned Cause: P=primary, S=secondary | | Notes/Observations |
|------------------------|----------------|-------------------------------|----------------------------------------------------------|----------------------------------------------|--------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| | | | | Vessel strike | Entanglement/ Fishery interaction | |
| 1/9/2006 | mortality | Adult Female #8667 14.0m | off Charleston, SC | P | | Extensive muscle hemorrhaging; rib fractures; dislocated flipper on left side of animal |
| 3/17/2006 | mortality | Juvenile Female 10.0m | Virginia Beach, VA | P | | Crushed cranium and fractured mandible; hemorrhaging associated with fractures; ventral lacerations consistent with propeller wounds |
| 3/25/2006 | serious injury | Juvenile sex unknown 8m (est) | Flagler Beach, FL (confirmed Canadian gear) ^b | | P | Heavy cyamid load; emaciated; spinal deformity that may or may not have been caused by the entanglement; line and buoys of lobster pot gear |
| 8/6/2006 | serious injury | age & sex unknown | Georges Bank | | P | Multiple constricting wraps around head; line cutting into upper lip; wraps around both flippers; no gear recovered |
| 8/23/2006 | serious injury | age & sex unknown 12m (est) | Great South Channel | | P | Flukes necrotic and nearly severed as a result of entanglement; pale skin and emaciated; gear recovered included heavy line and wire trap |
| 9/6/4206 ^c | mortality | age & sex unknown | East of Cape Cod, MA | | P | Whale entangled through mouth, continuing back to multiple wraps around peduncle; no gear recovered |
| 9/27/4206 ^d | serious injury | age & sex unknown | off Cape May, NJ | | P | Line anchored in mouthline & crosses over back; extent of entanglement unknown but animal is emaciated; no gear recovered |

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c. Record was added after review of carcasses sighted on 08/20/06 and 09/06/06. Previous reports stated these were the same animal. Recent review could not confirm the resight; therefore they are now being treated as two separate events. There was inconclusive evidence with regard to the carcass on 08/20/06 to determine mortality caused by entanglement.

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| | | | | Vessel strike | Entanglement/ Fishery interaction | |
| 10/15/2006 | mortality | Juvenile Female 10.1m | off Fenwick Island, DE | P | S | Large laceration, penetrating through the bone, across rostrum with accompanying fractures; marks around right flipper consistent with entanglement; subdermal hemorrhaging and bone trauma at entanglement point; no gear present |
| 1/27/2007 | serious injury | age & sex unknown | off Beach Haven, NJ | | P | Body wrap likely to become constricting; random cyanid patches; thin body condition; probable flipper wraps; no gear recovered |
| 5/10/2007 | mortality | Adult Female 12.5m | off Wachapreague, VA | P | | Cranium shattered, hemorrhaging on left lateral side midway between flippers & fluke |
| 5/13/2007 | mortality | Juvenile Male 9.3m | Rockport, MA | P | | Areas of hemorrhaging indicate major blunt trauma to chest, neck, & head |
| 6/23/2007 | serious injury | age unknown Male "Egg Toss" | Wildcat Knoll | | P | Body wrap of gear imbedded; no gear recovered |
| 6/24/2007 | mortality | Juvenile Female "Tofu" 9.9m | Stellwagen Bank | P | | Subdermal hemorrhaging involving blubber, fascia, & muscle extending from/around the insertion of the right flipper ventrally to the axilla |

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| | | | | Vessel strike | Entanglement/ Fishery interaction | |
| 12/21/2007 | mortality | age unknown Male 9.4m | Ocean Sands, Corolla, NC | | P | Documented wrapped in gear, gear removed without permission prior to necropsy; external lesions at flukes, flippers, mouth, dorsal fin, dorsal keel, & ventral pleats consistent with gillnet entanglement; emaciated; no gear recovered |
| 1/6/2008 | serious injury | age & sex unknown 10m (est) | off Cape Lookout, NC | | P | Constricting line cutting into right flipper in several places; heavy cyamid load; emaciated; no gear recovered |
| 5/30/2008 | mortality | age & sex unknown | Georges Bank | | P | Constricting body wraps, one wrap under lower jaw; open wound on right flipper; no gear recovered |
| 6/9/2008 | mortality | age & sex unknown | Georges Bank | | P | Constricting body wrap; lobster buoy and 7/8" diameter rope |
| 7/8/2008 | serious injury | Adult Female "Estuary" | off Nauset, MA | | P | Cuts were made, but no gear was removed; emaciated; moderate cyamid coverage; deep wounds in fluke blades from gear; hunched over position maintained after cuts were made to the gear; 7/8" diameter poly rope |
| 8/13/2008 | serious injury | age & sex unknown 10m (est) | off NJ | | P | Partial disentanglement; emaciated; lethargic; heavy cyamid load; no gear recovered |

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| 8/21/2008 | serious injury | age & sex unknown | off Chatham, MA | | P | Evidence of decline in health; no gear recovered |
| 11/4/2008 | mortality | Juvenile Male 10.1m | Assateague Island, MD | P | | Cranial fractures with associated hemorrhaging |
| 2/8/2009 | mortality | age unknown Male 9.7m | Cape Fear, NC | | P | Evidence of entanglement at mouthline, peduncle, and flipper with associated hemorrhaging; emaciated; no gear present |
| 2/16/2009 | mortality | Juvenile Male 10.0m | Nags Head, NC | | P | Evidence of entanglement involving anchoring or heavily weighted gear with associated hemorrhaging; no gear present |
| 2/25/2009 | serious injury | Juvenile sex unknown | off Sandy Hook, NJ | | P | Disentangled from anchoring gear; maintained hunched body position post-disentanglement; no gear recovered |
| 6/9/2009 | serious injury | age & sex unknown | Stellwagen Bank | | P | Constricting body wrap just forward of the flippers; no gear recovered |
| 12/9/2009 | serious injury | age & sex unknown | off Jacksonville, FL (confirmed Canadian gear) ^b | | P | Disentangled; evidence of health decline; pelagic gillnet |
| 3/7/2010 | serious injury | age & sex unknown | off Ponte Vedre, FL | | P | Constricting body & flipper wraps; evidence of severe health decline |

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| | | | | Vessel strike | Entanglement/ Fishery interaction | |
| 3/13/2010 | mortality | Juvenile Female 9.1m | Ocean City, MD | P | | Skull fractures with associated hemorrhaging |
| 5/5/2010 | serious injury | Juvenile sex unknown | Chesapeake Bay | | P | Gear likely to become constricting as animal grows; evidence of health decline; no gear recovered |
| 5/8/2010 | mortality | Adult Female 9.8m | Narragansett, RI | | P | Evidence of constricting gear with associated hemorrhaging; fluid filled lungs; sink gillnet gear |
| 5/15/2010 | serious injury | Juvenile Male 8.8m | off Hatteras Inlet, NC | | P | Live stranded; euthanized; necrotic infected injuries consistent with entanglement; no gear present |
| 5/18/2010 | serious injury | Adult sex unknown "Pinch" | Stellwagen Bank | | P | Constricting body wrap; no gear recovered |
| 5/28/2010 | mortality | Adult Female 11.2m | Edgartown, MA | | P | Evidence of entanglement with associated bruising & edema; 6" poly netting |
| 6/10/2010 | mortality | Juvenile Male 9.6m | Jones Beach State Park, NY | P | | Extensive hemorrhage & edema on right dorsal lateral surface |
| 7/4/2010 | mortality | Juvenile Female 8.7m | off Assateague, MD | P | | Extensive hemorrhage & edema to left lateral area |
| 8/13/2010 | serious injury | age & sex unknown | off Nauset, MA | | P | Head wrap likely to become constricting; endline of lobster pot gear |

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| 8/20/2010 | serious injury | Juvenile sex unknown 2008 calf of "Trident" | Stellwagen Bank | | P | Embedded peduncle wrap; evidence of health decline; no gear recovered |
| 11/27/2010 | mortality | Juvenile Male 7.5m (est) | Bay of Fundy | | P | Evidence of constricting wraps on fluke, peduncle, and flipper; no gear recovered |
| 12/23/2010 | serious injury | age & sex unknown | off Port Everglades Inlet, FL | | P | Evidence of entanglement & severe health decline; no gear present |
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