

Right Whale Unusual Mortality Event 2017 to Present

2017

17 Right Whales died

- 12 in Canada
 - 4 Vessel Strikes
 - 3 Entanglement
 - 5 Undetermined
- 5 in U.S.
 - 1 VS
 - 4 undetermined

2018

3 Right Whales died

- 1 in Canadian fishing gear (found in U.S.)
- 2 in U.S.
 - Entanglement in unknown gear

2019

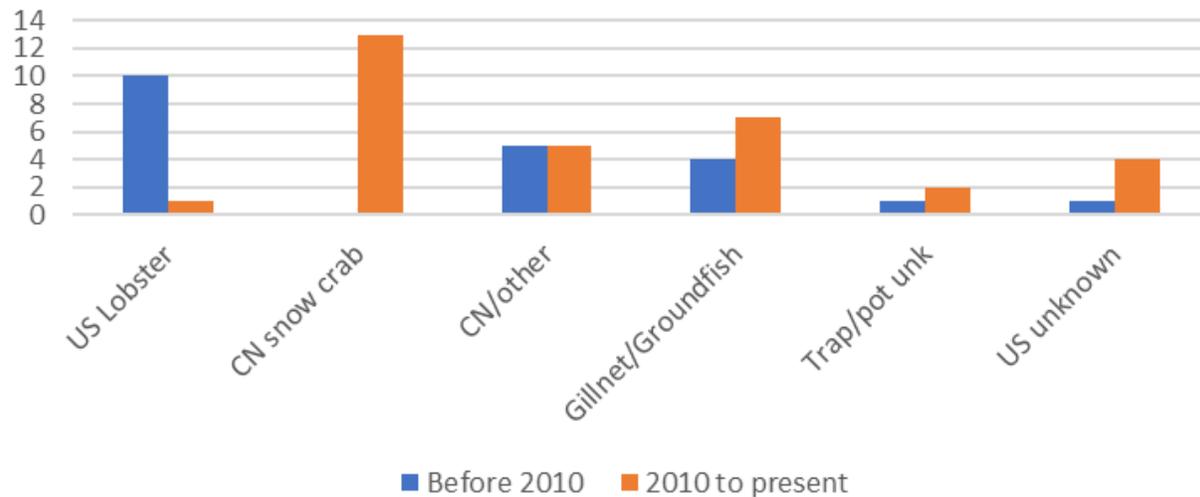
10 Right Whales died

- 9 in Canada
 - 3 Vessel Strikes
 - 1 Entanglement
 - 6 Undetermined
- 1 in U.S.
 - Canadian entanglement

No right whale mortalities confirmed in U.S. fishing gear

Lobster gear entanglement declined 90% since 2010

Right Whale Entanglement
Known Fishery or Country



11 Confirmed U.S. Lobster Entanglements 1997-2018

<2000

4 (4 NSI)

- 🦞 E9-97 (offshore)
- 🦞 E36-98 (MA)
- 🦞 E38-98 (MA)
- 🦞 E6-99 (offshore)

2000-2010

6 (1 M, 4 NSI)

- 🦞 E09-01 (offshore)
- 🦞 E07-02 (ME)
- 🦞 E15-02 (inshore)
- 🦞 E15-03 (secondary)
- 🦞 E02-04 (secondary)
- 🦞 E25-09 (MA)

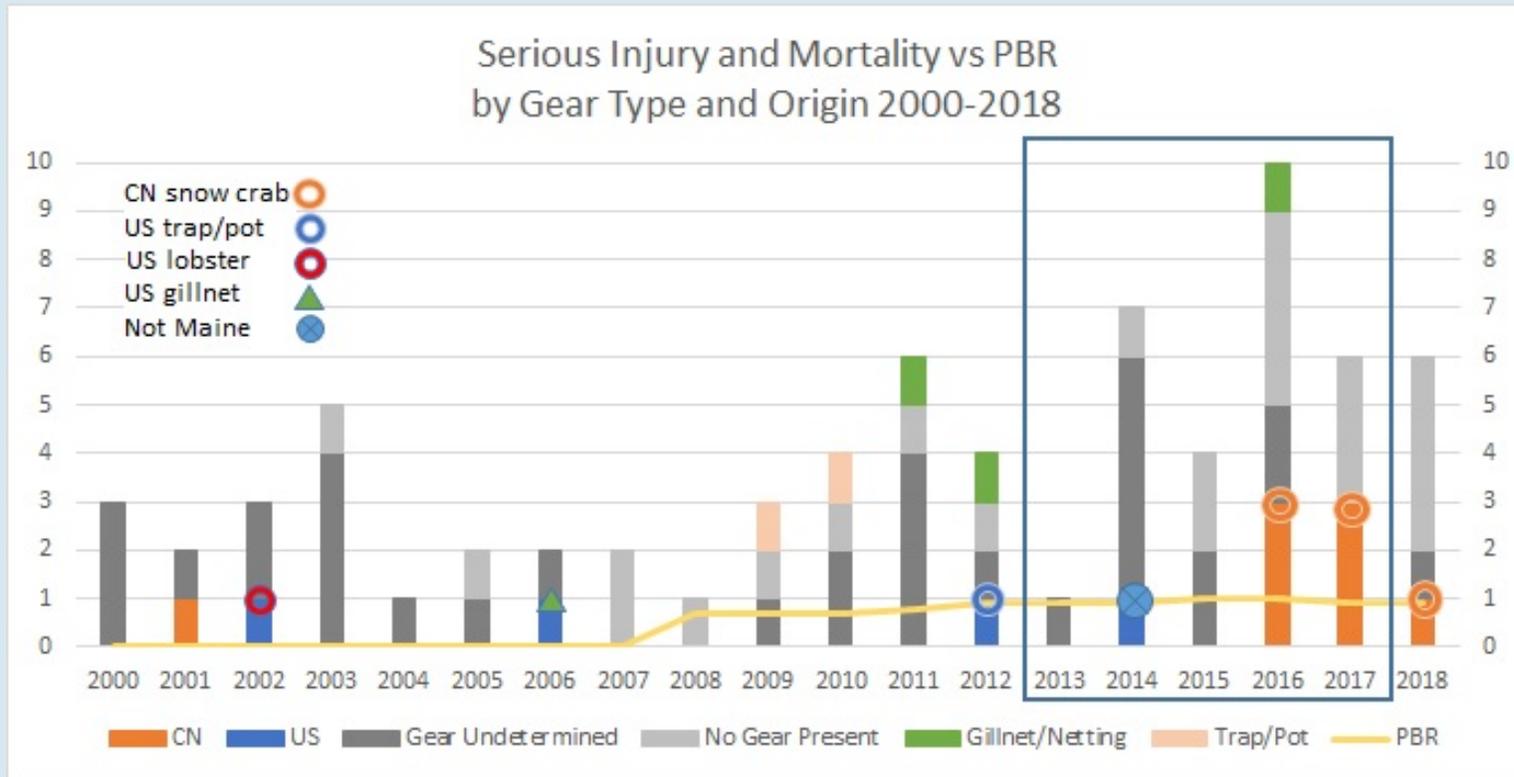
2010-2018

1 (1 NSI)

- 🦞 E36-16 (MA)

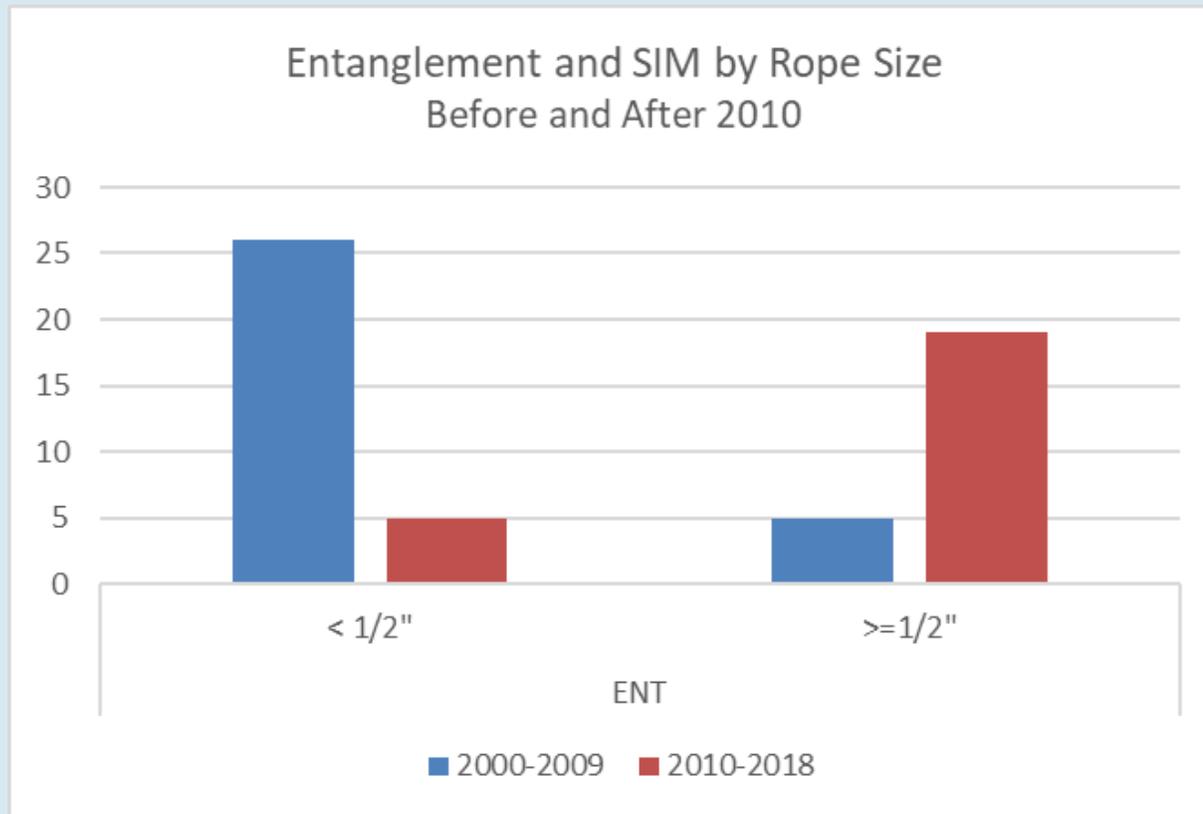
🦞 red tracer found. Two additional red tracer cases for northern nearshore trap/pot fishery (not determined lobster): E11-11 (NSI) and E43-12 (M)

Right Whale Serious Injury and Mortality Data



- Known U.S. case in 2014 is not Maine gear
- Cases with “no gear present” increase significantly in 2015
- Coincident with increased observed CN snow crab entanglements

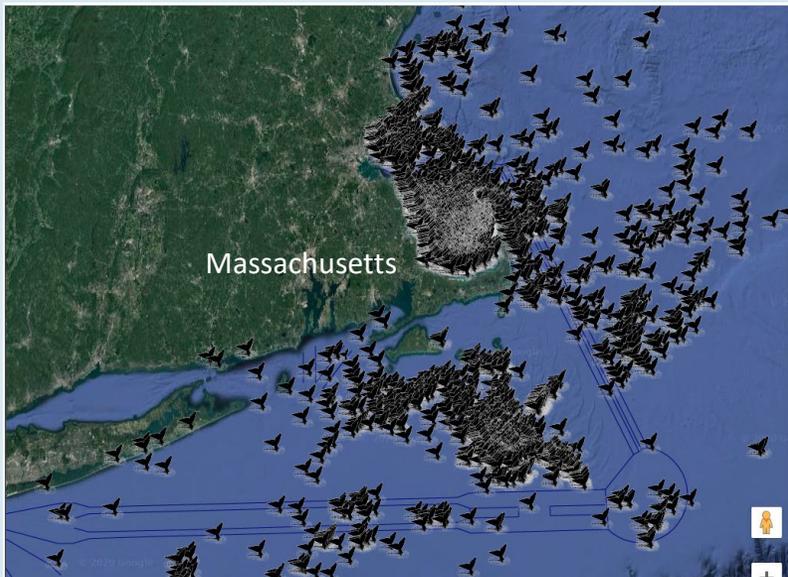
Rope Removed from Right Whales Rare in Maine Lobster Fishery



- 80% of rope removed from right whales is $\frac{1}{2}$ " or larger diameter
- This rope size is common in CN snow crab fishery and offshore trap fisheries
- This rope is rarely fished in Maine's lobster fishery
- 92% of Maine lobstermen fish with ropes $\leq \frac{1}{2}$ " diameter (source Maine DMR)

Right Whale Habitats Shifted away from Maine Coast

Right Whale Sightings 2015 to 2020 (as of April 30)



Cape Cod Bay and Nantucket region,
Massachusetts

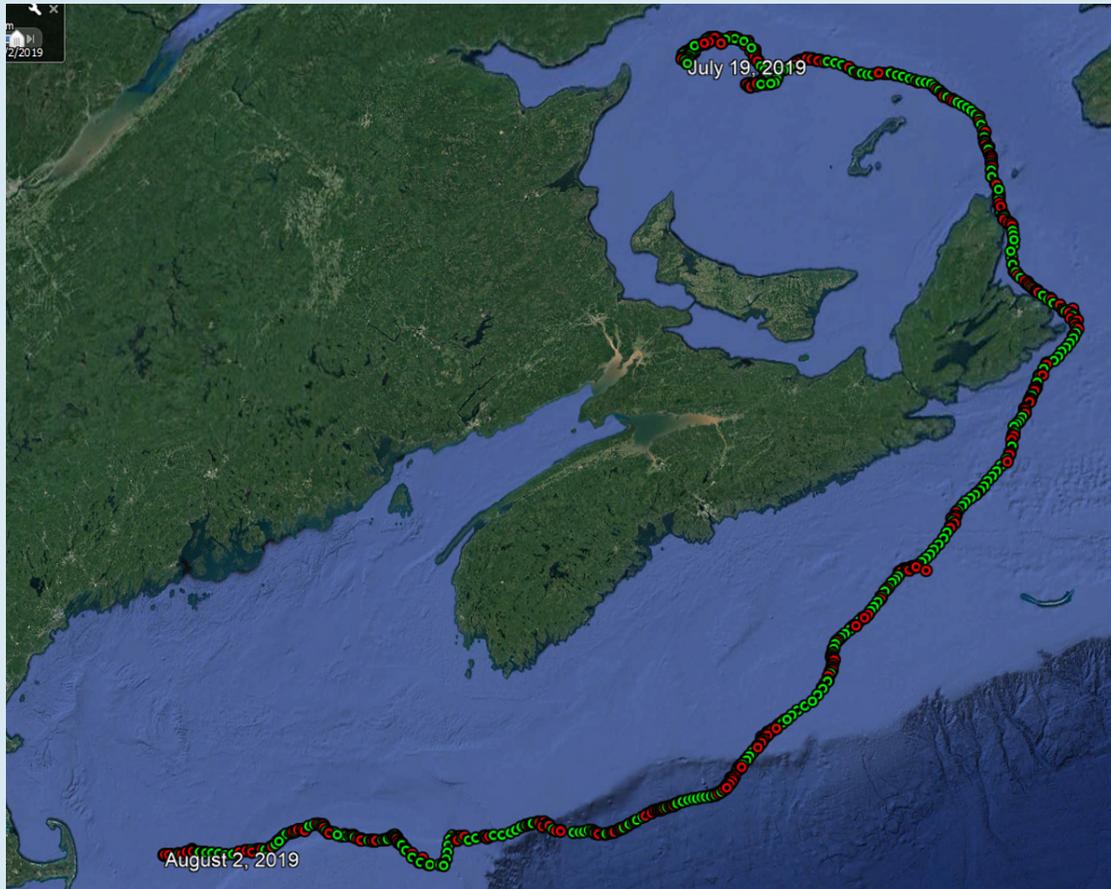


Greater Gulf of Maine region



Gulf of St. Lawrence region,
Canada

2019 Right Whale Track Gulf of St Lawrence to U.S.



- Telemetry track of right whale 3125 from July 19 to August 2, 2019
- Entangled in the Gulf of St Lawrence
- Disentangled off of Massachusetts by Center for Coastal Studies