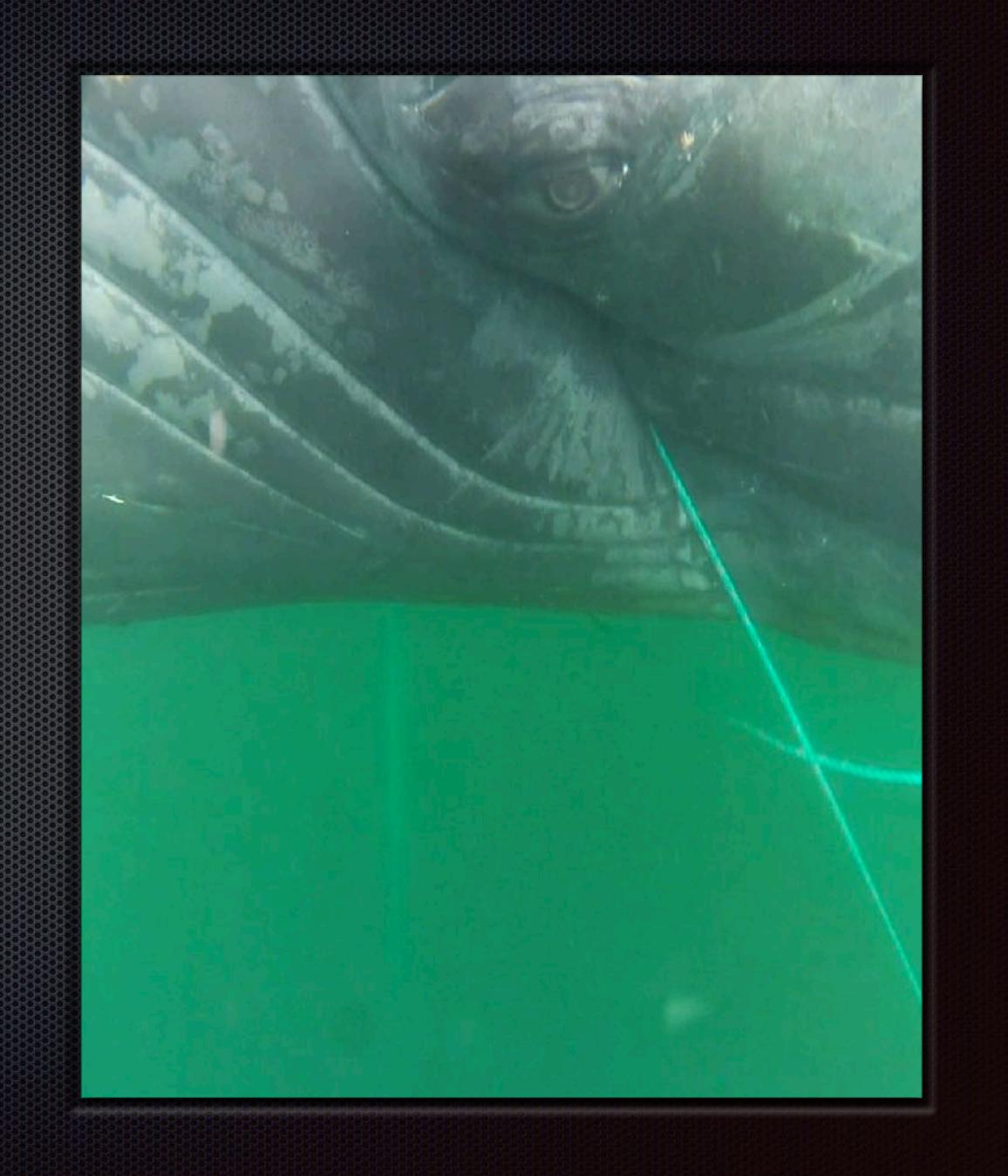
Appreciating the Complexity of Entanglements

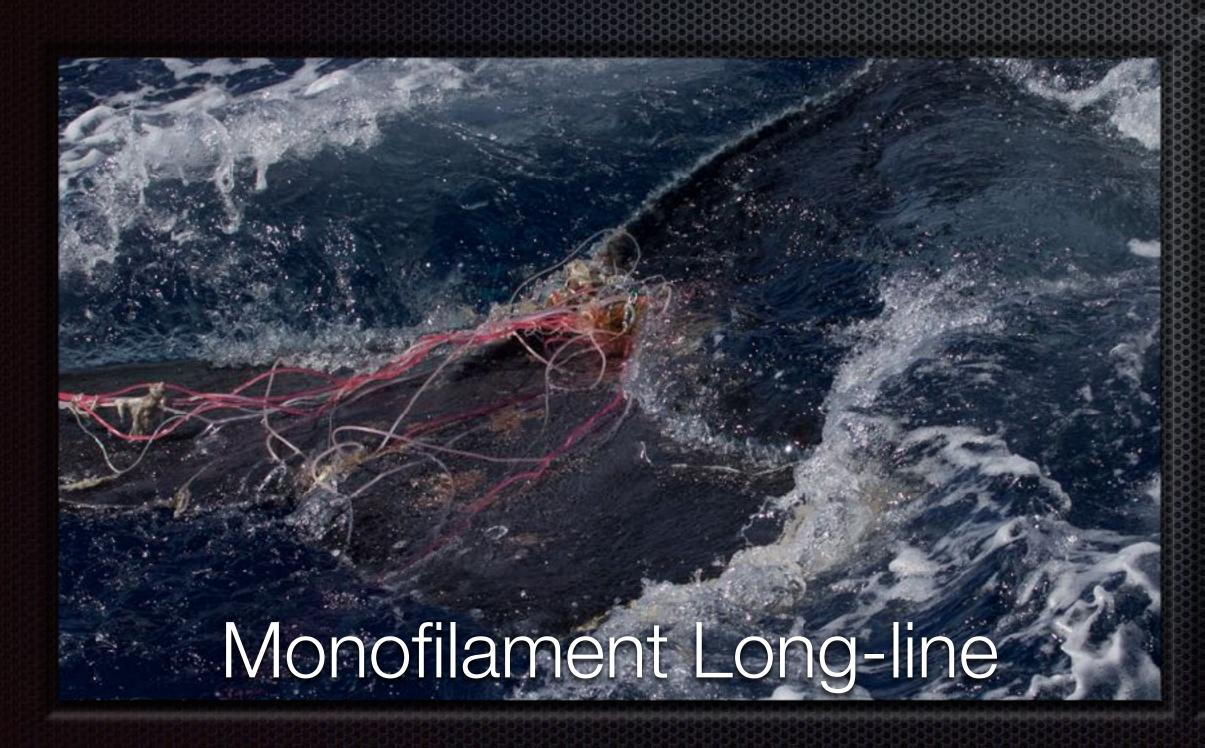
Pieter A. Folkens

Primary Disentangler, West Coast Entangled Whale Response Network 3 September 2019

Documentation

- Getting a grip on the extent of the issue
- Properly attributing entanglements
- Understanding Mechanism of Injury (MOI)
- Progression of injury; prognosis for survival; fatalities; ESA & PBR
- Time, location, and species trends
- Inform decision makers, gear developers

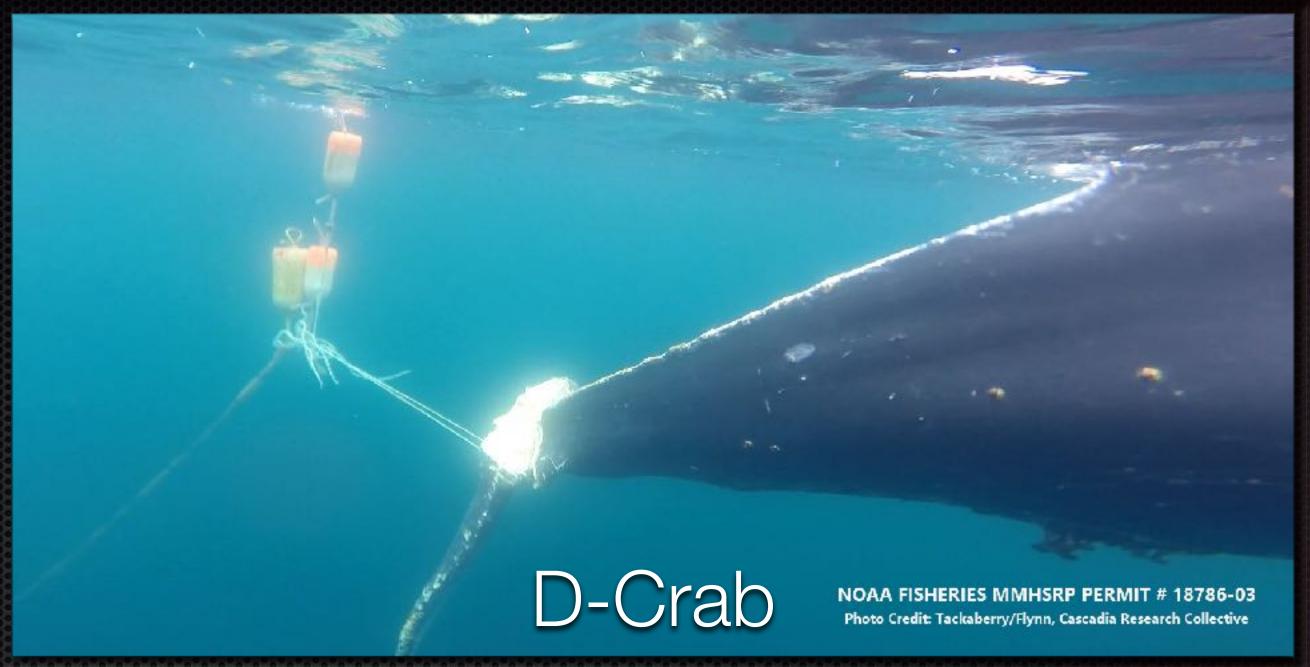




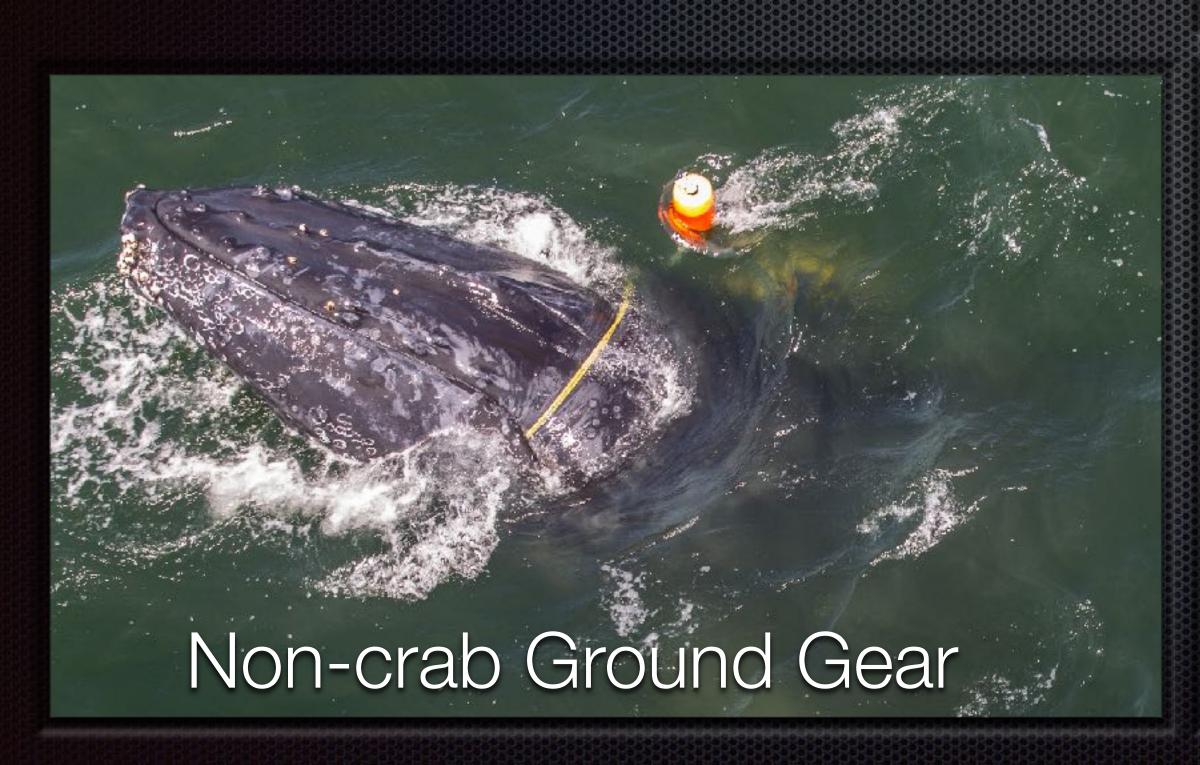






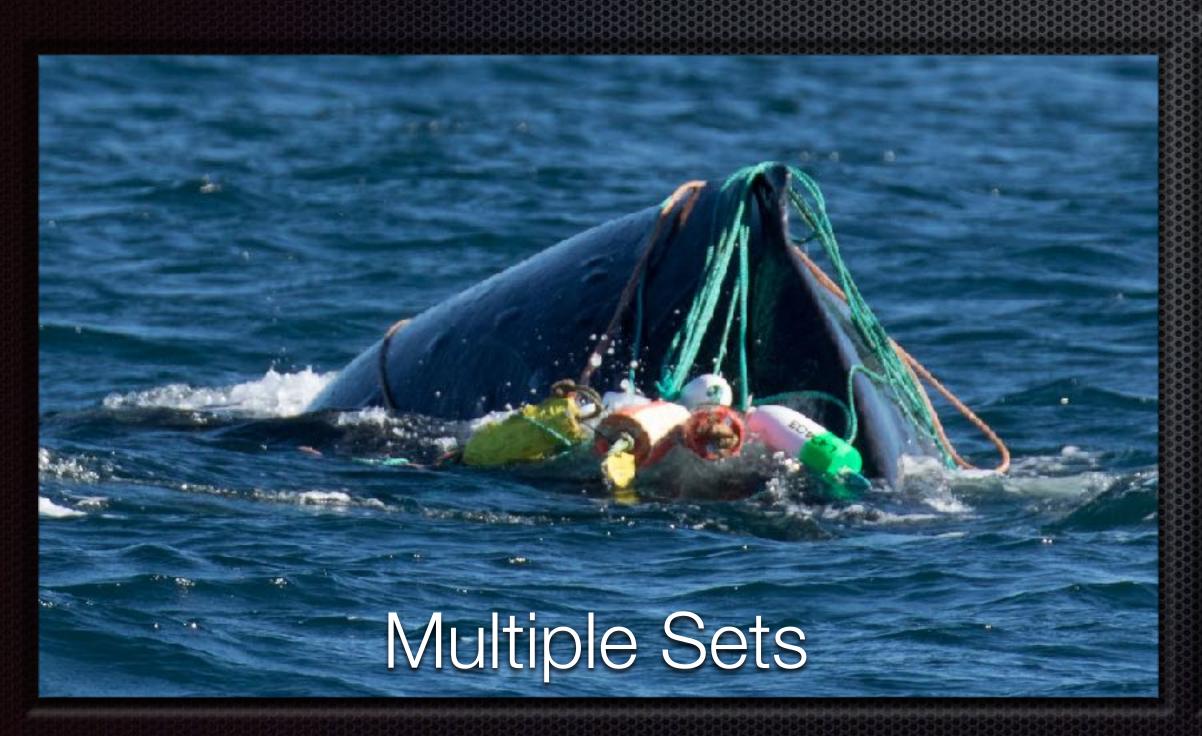
















Materials

Different entanglements

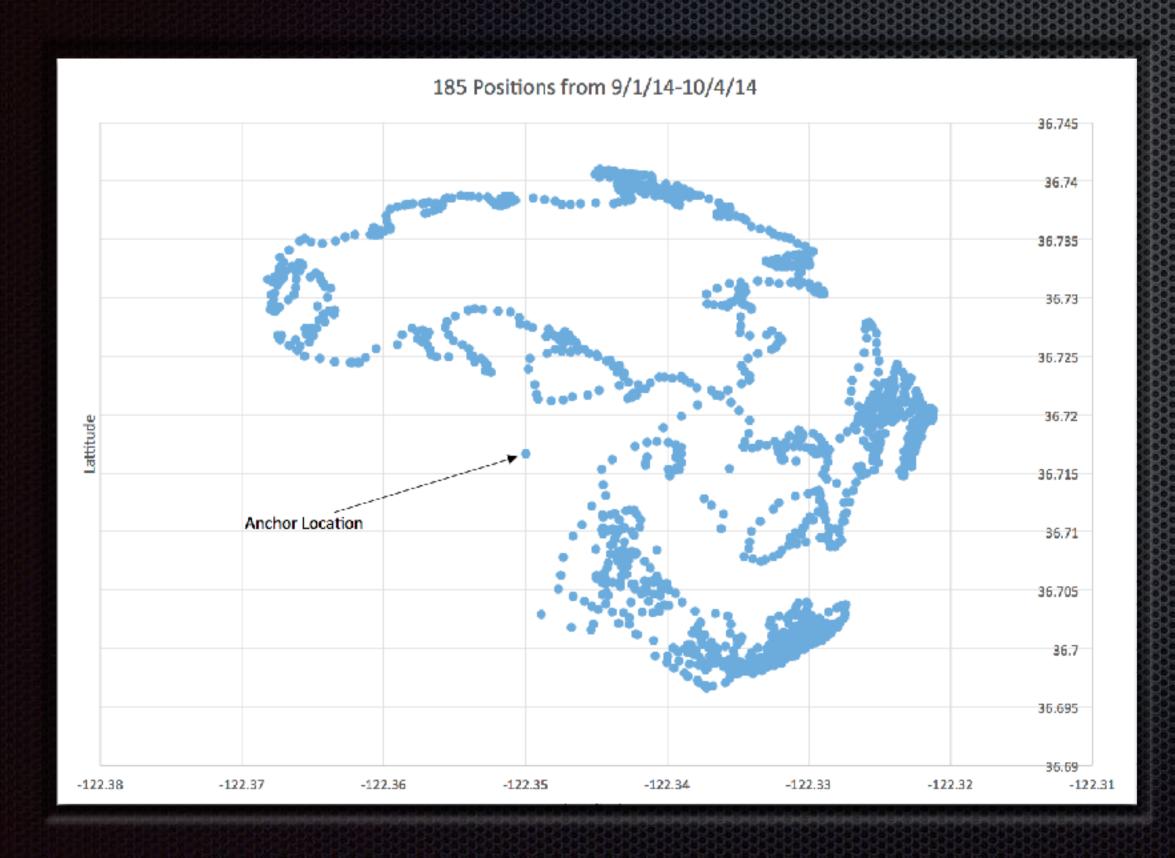


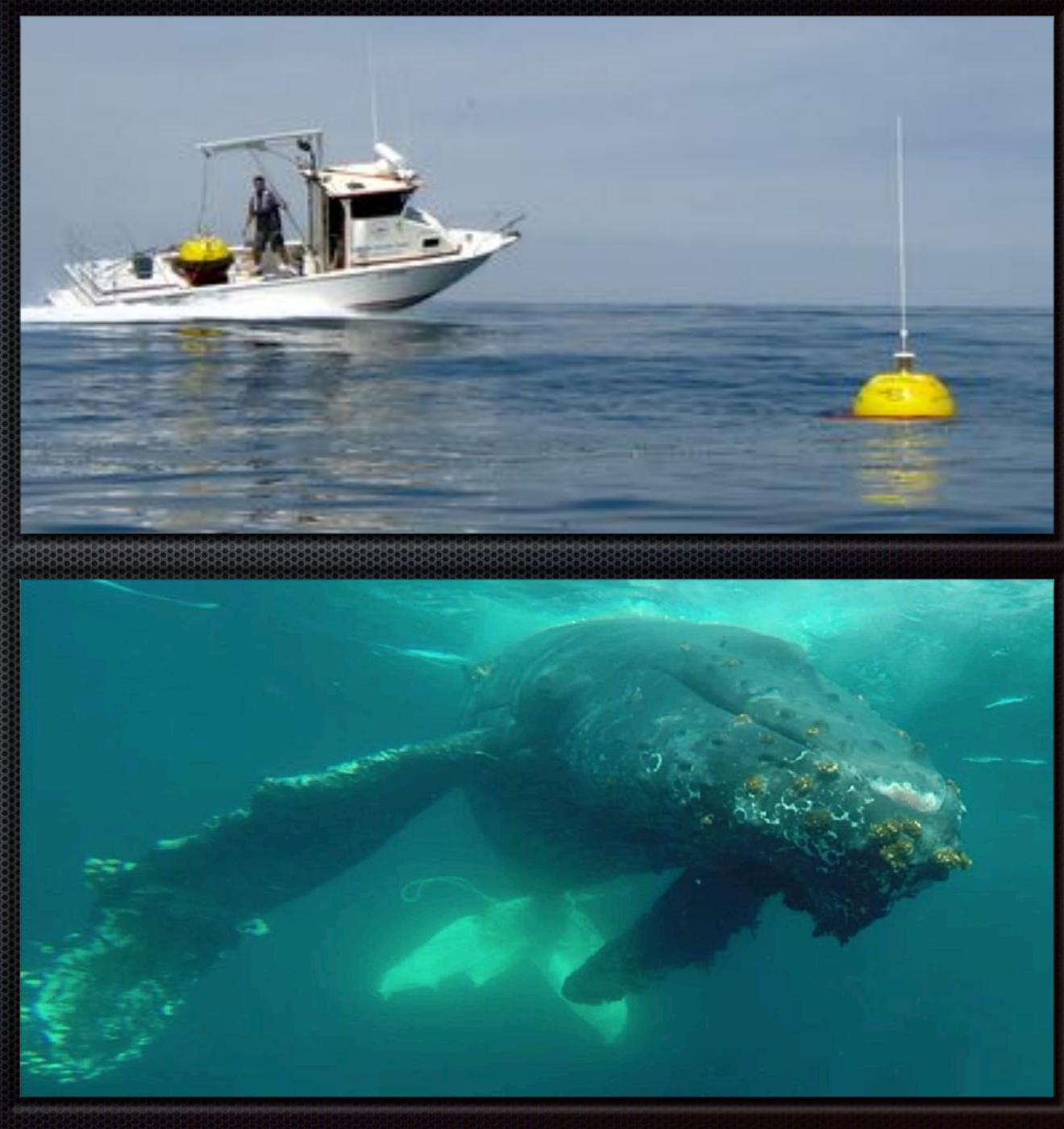
MIGRATION OF AN ENTANGLEMENT



Time

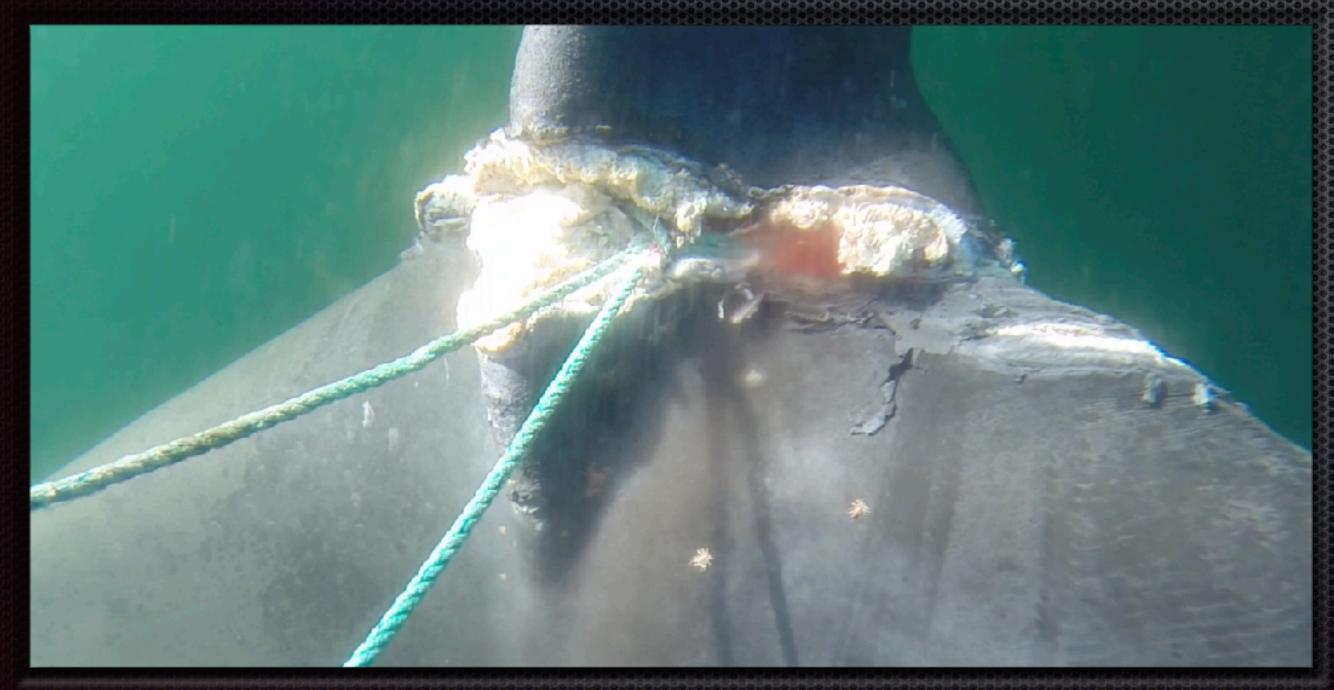
Entanglement to injury, the progression of decline





Time From entanglement to injury . . . to recovery.







Interpret evidence

Evaluating survivors as to type and propensity







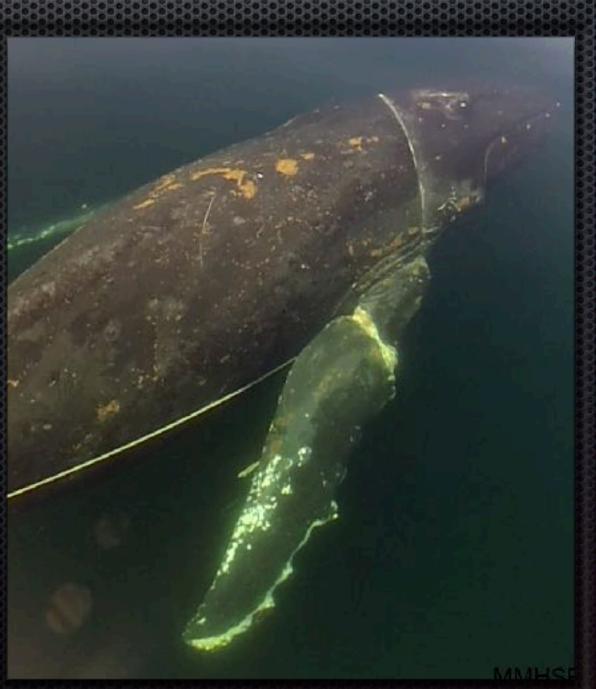
Catastrophic

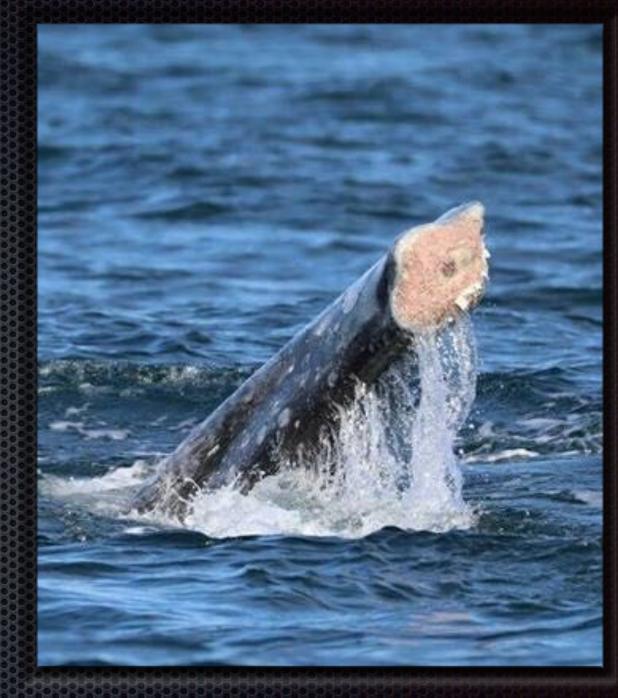
Understanding how types of entanglements lead to severe injuries













Case Study — Influencing the RAMP

- Commercial D-Crab gear
- Gear set and entangled in WA
- Dragged gear into California
- Got hung up in CDIP Buoy
- Freed, but some line remained
- Recorded as CA entanglement, a probable fatality



Survivors

- "Rope" a.k.a. CRC-12578
- First documented as a formerly entangled adult in April 2009
- Sighted 22 times, most recently 29
 August 2019, in the same general area (Santa Barbara Channel)
- Site tenacity returns to same area



Fine-tuning the RAMP

The CA D-Crab fishery needs good forensic analysis so that this specific fishery is not singled out as cause of unintended injuries

