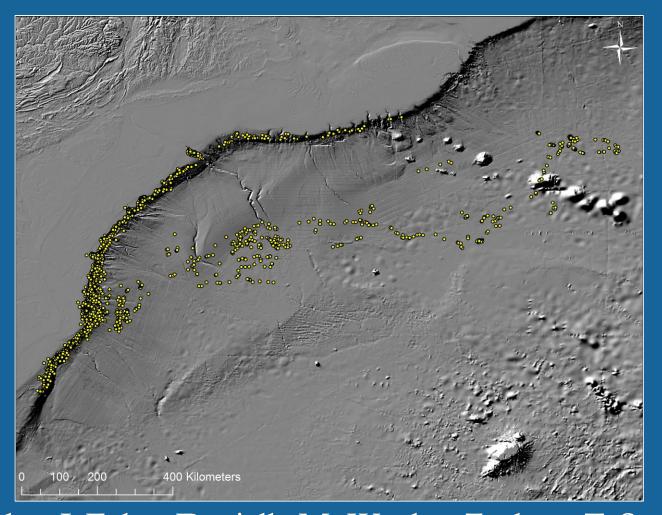
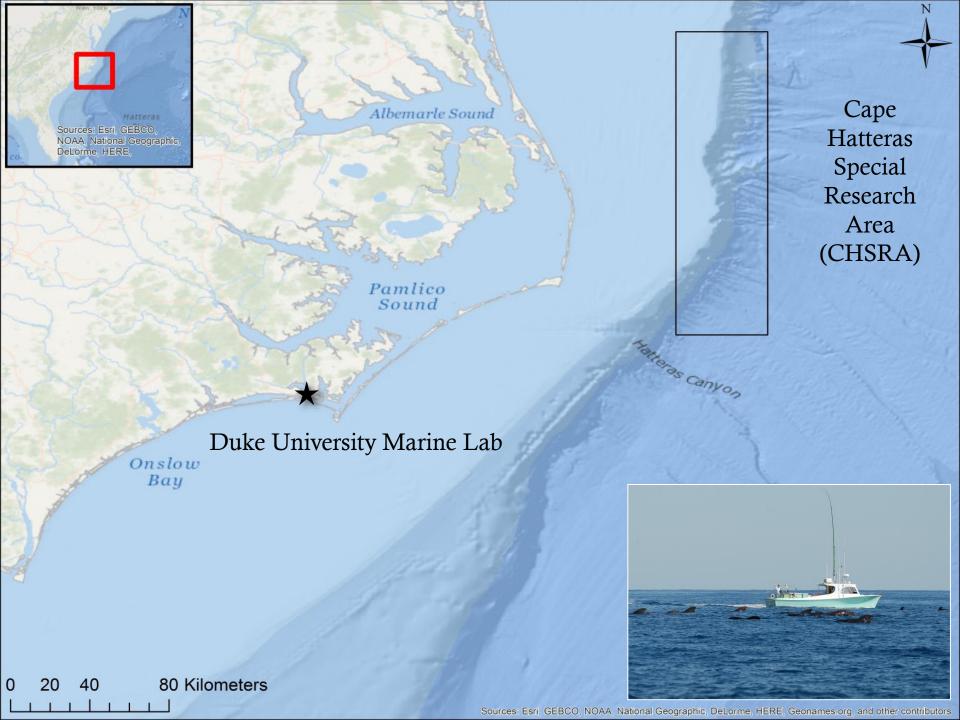
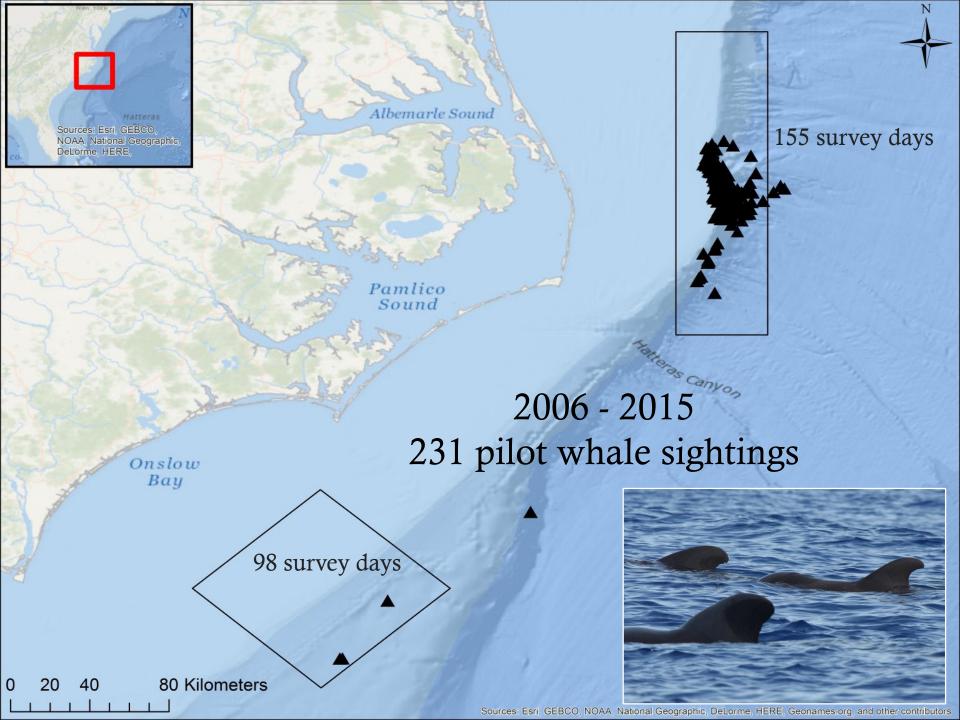
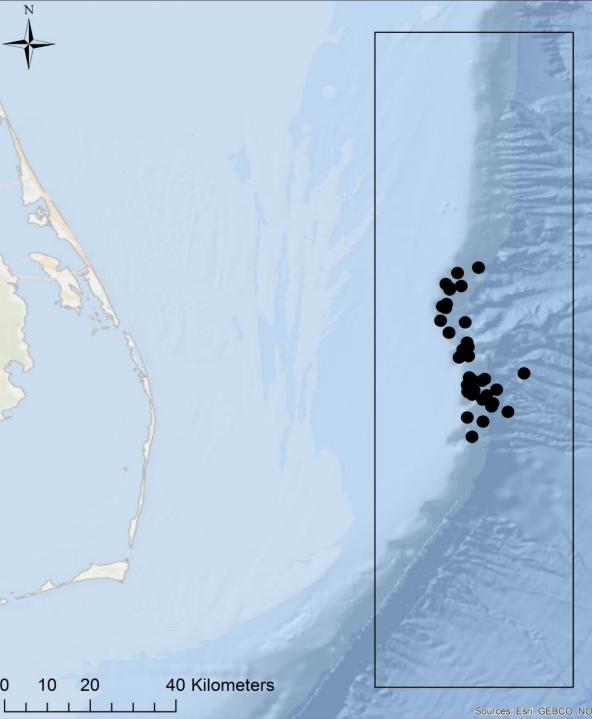
Should I Stay or Should I Go: Movement and Residency Patterns of Satellite-tagged Pilot Whales Offshore of Cape Hatteras, NC



Heather J. Foley, Danielle M. Waples, Zachary T. Swaim, Robin W. Baird, Daniel L. Webster, Joel T. Bell & Andy J. Read







Cape Hatteras Residency

Ongoing photo-id work

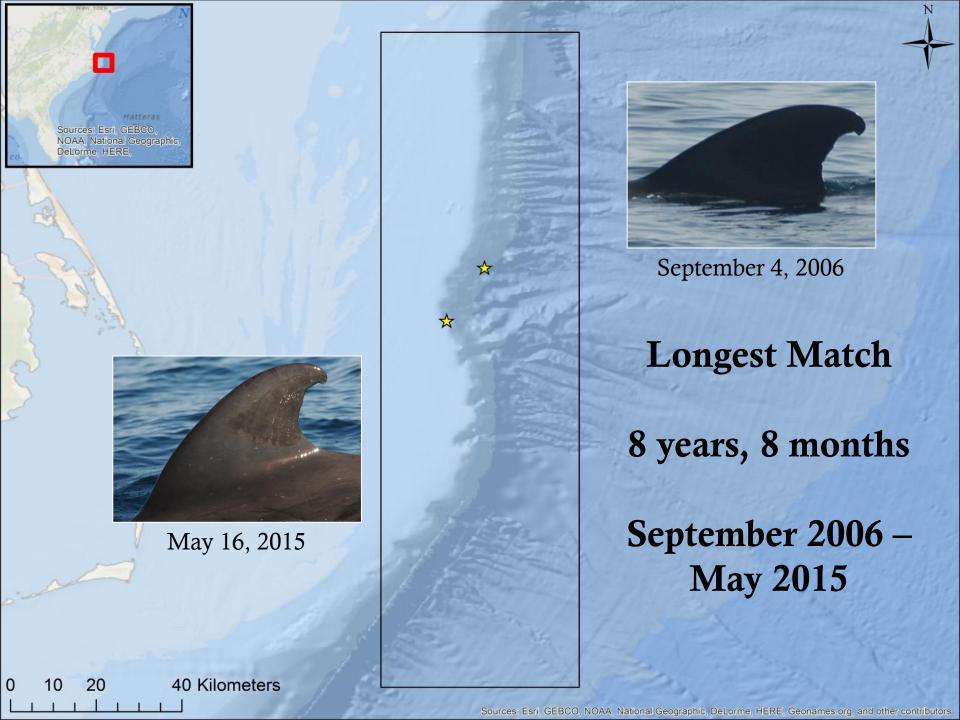
60 pilot whale matches

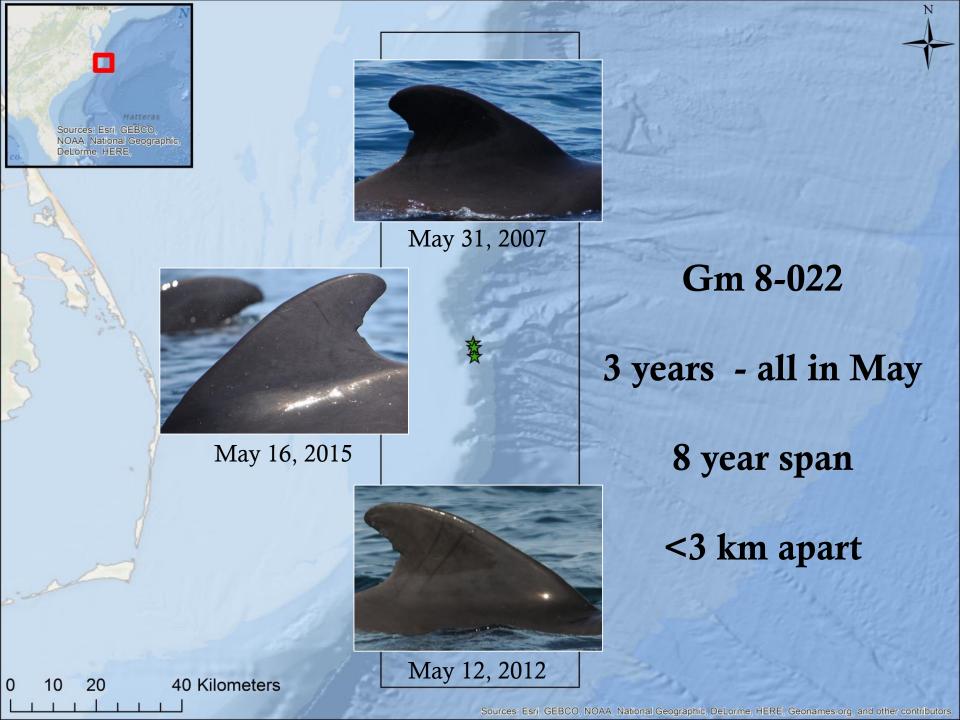
16% of 367 in catalog

Intra- and Inter-annual

Intra- and Inter-seasonal

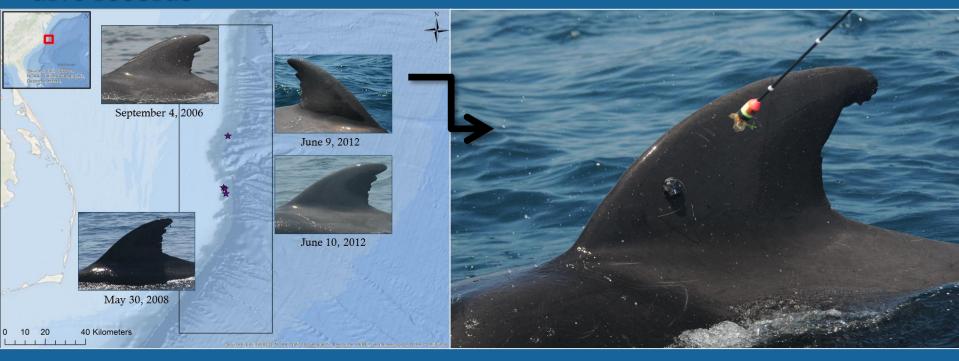
Re-sighted up to five times



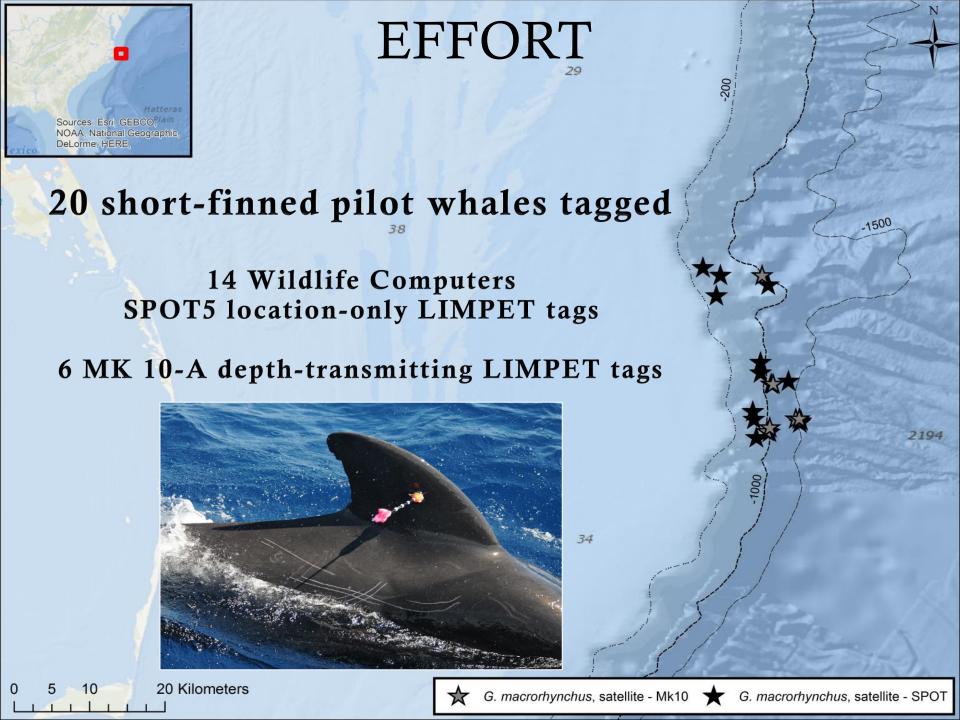


OBJECTIVE

Obtain medium-term movement and diving patterns of short-finned pilot whales to complement the existing information on long-term residency patterns from photo-id and short-term DTag dive records





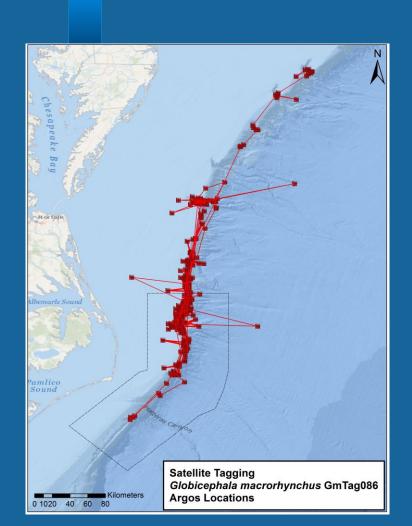


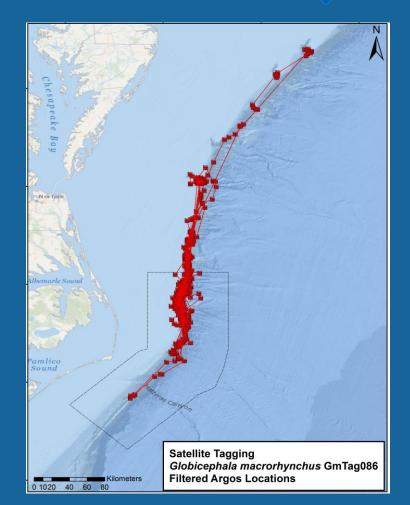
DATA FILTERING

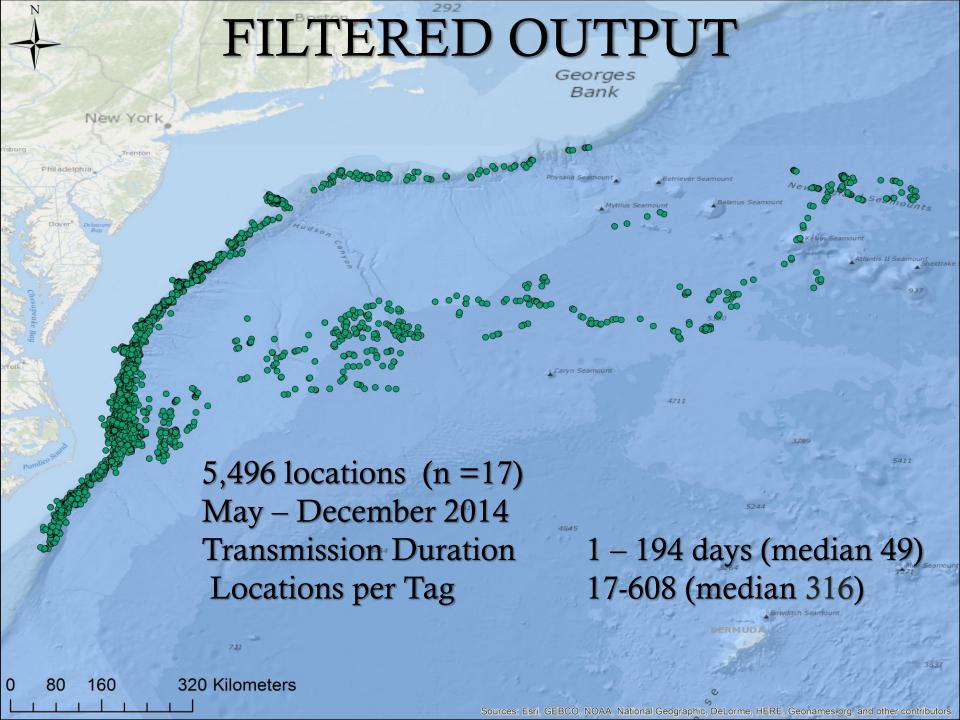
811 Locations

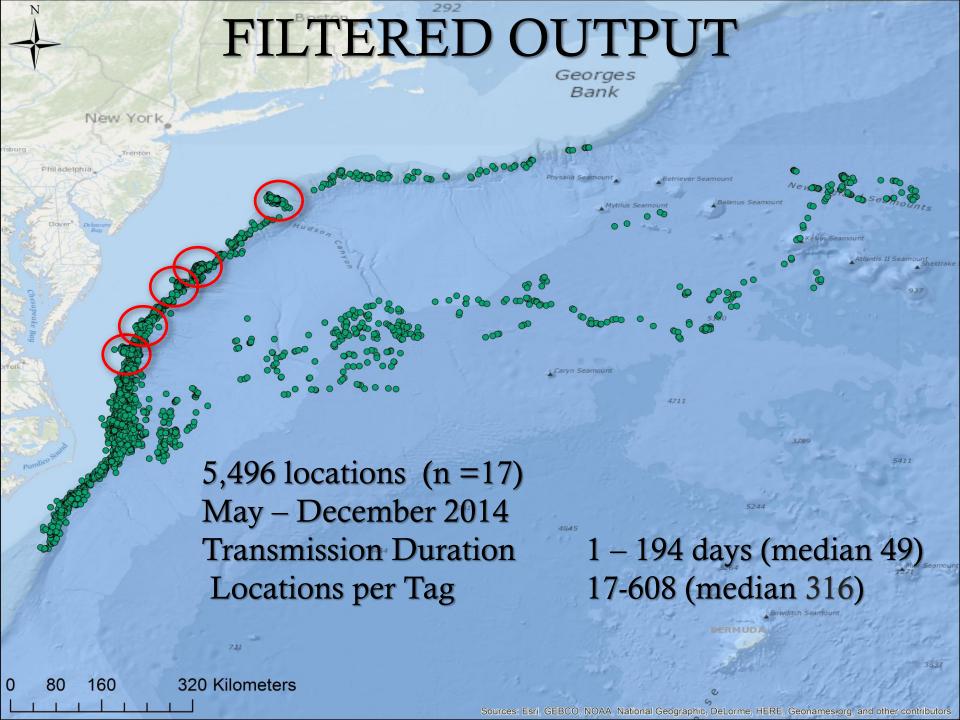
Douglas Filter

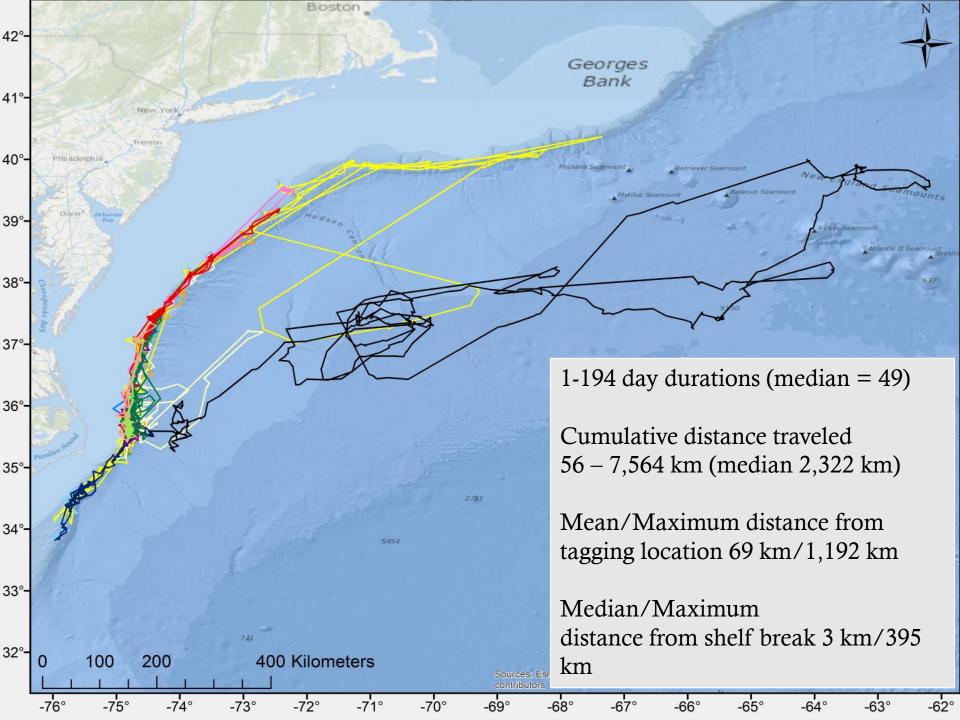
516 Locations

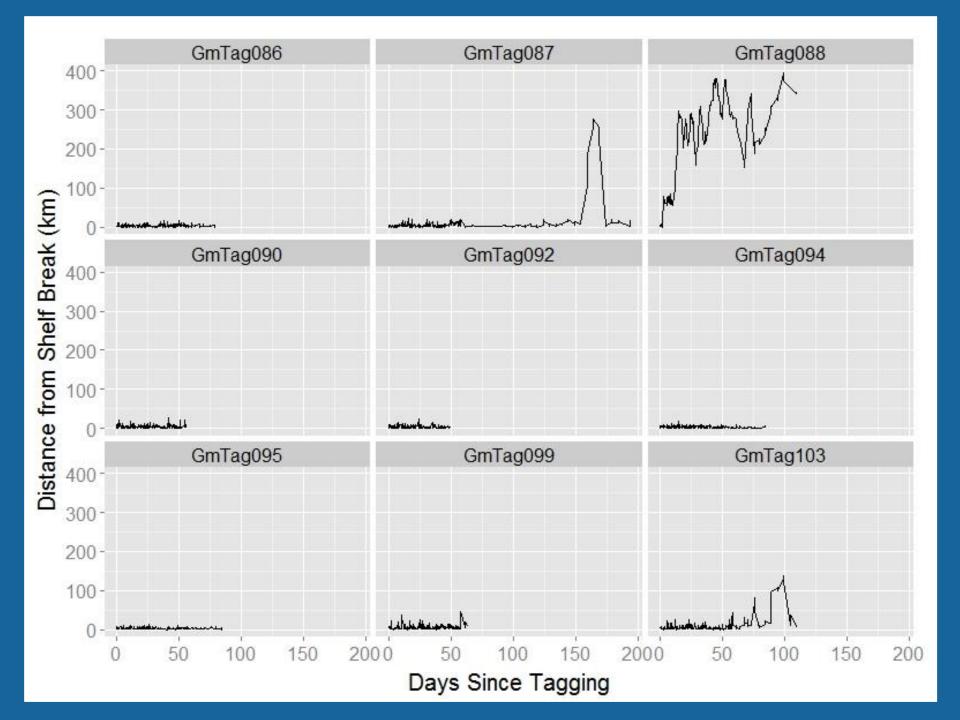


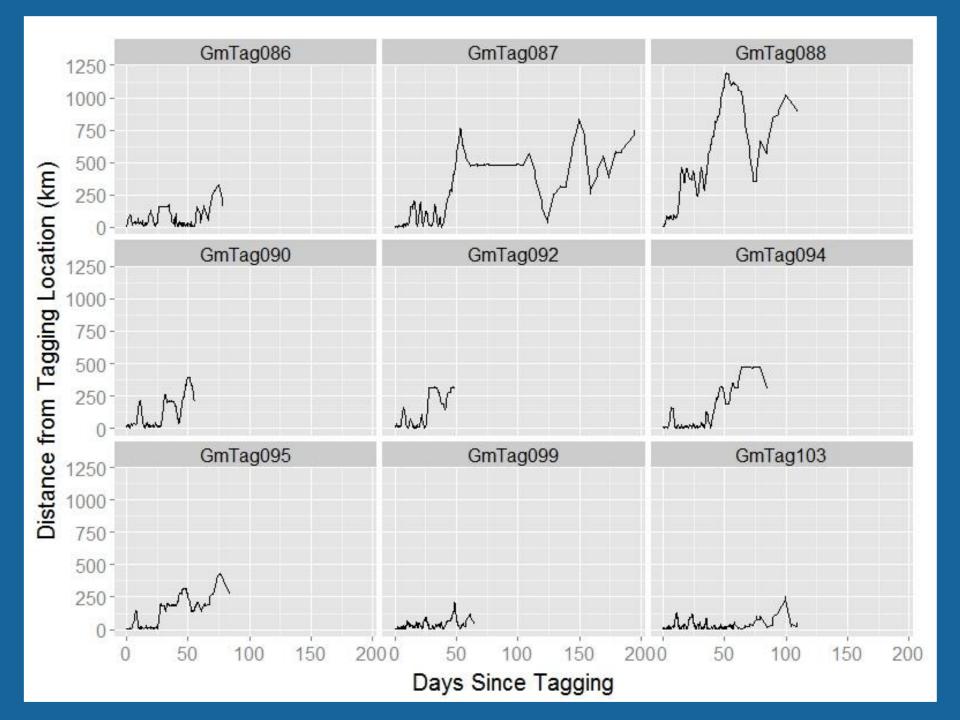


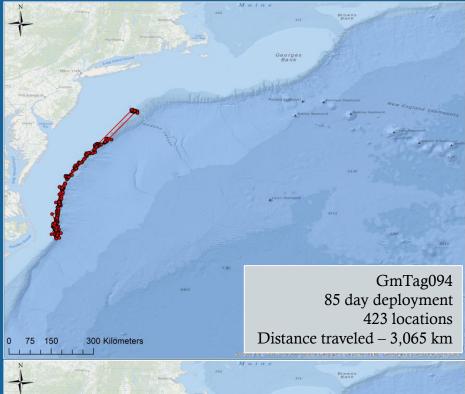






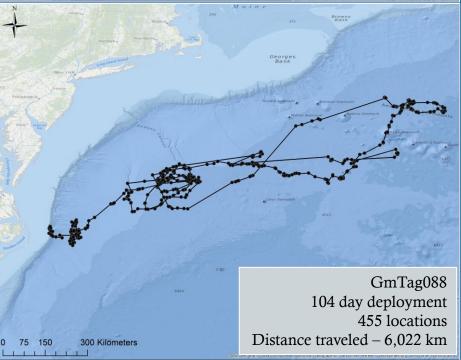


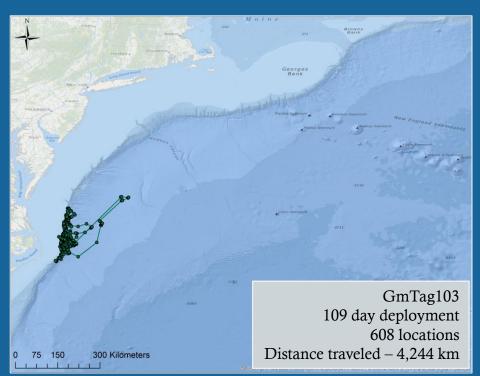


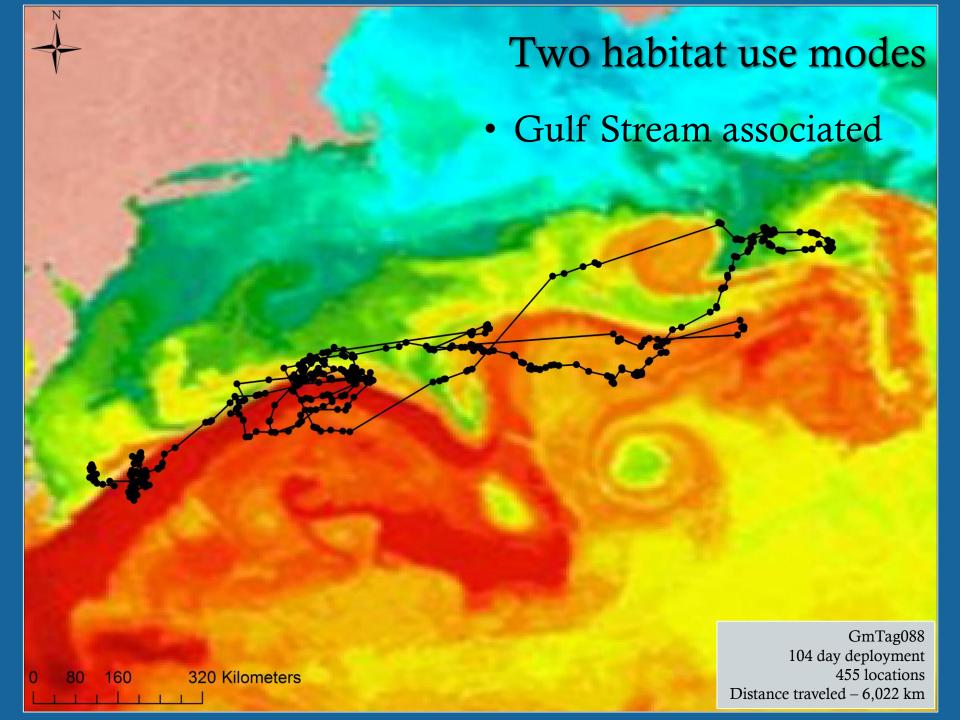


Two habitat use modes

- Shelf break associated
- Gulf Stream associated
- some exhibit both







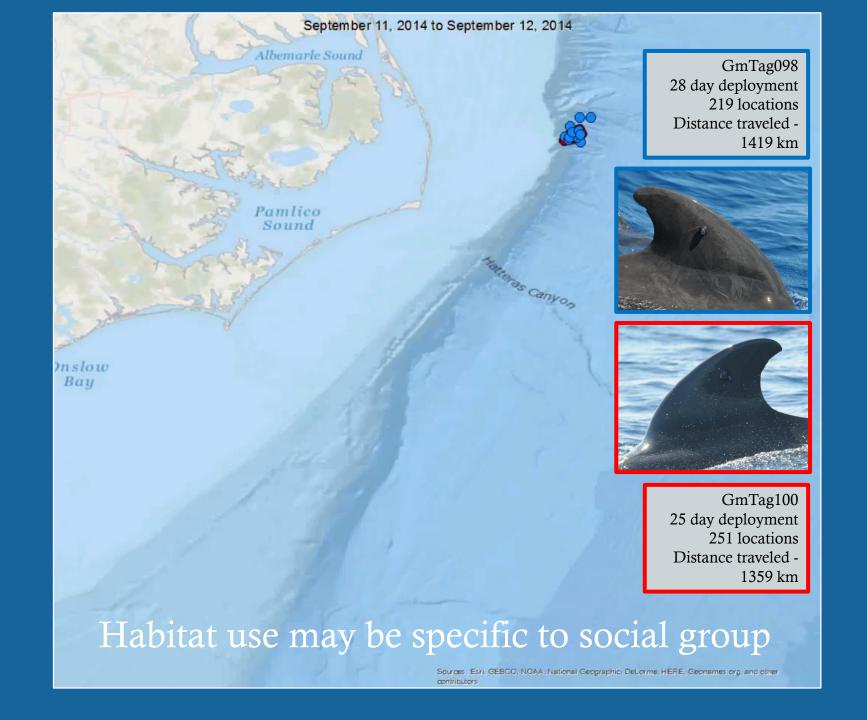


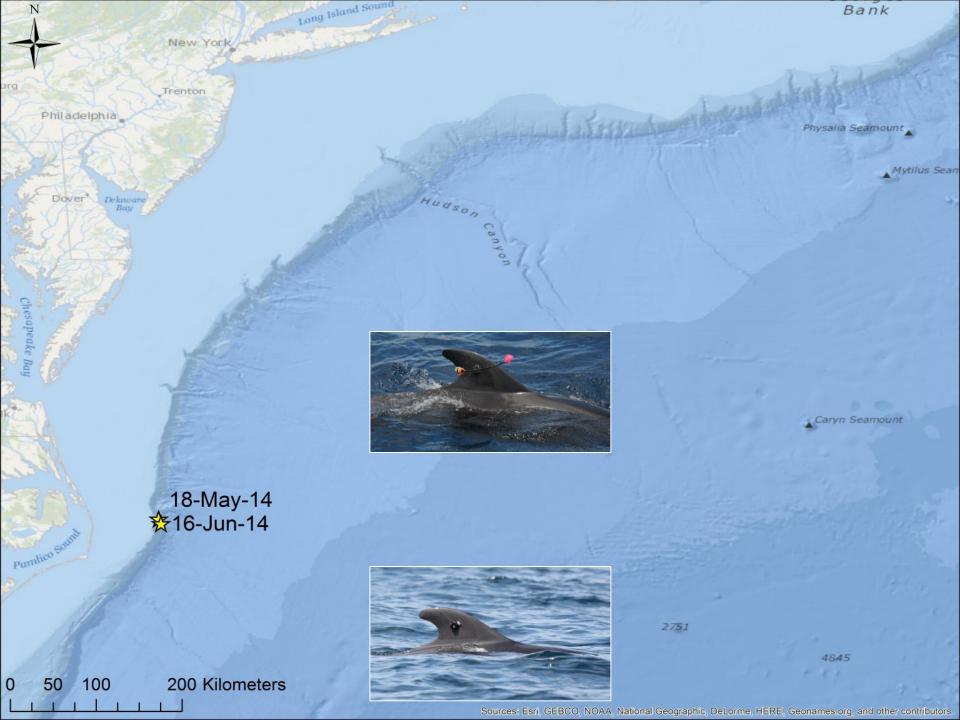


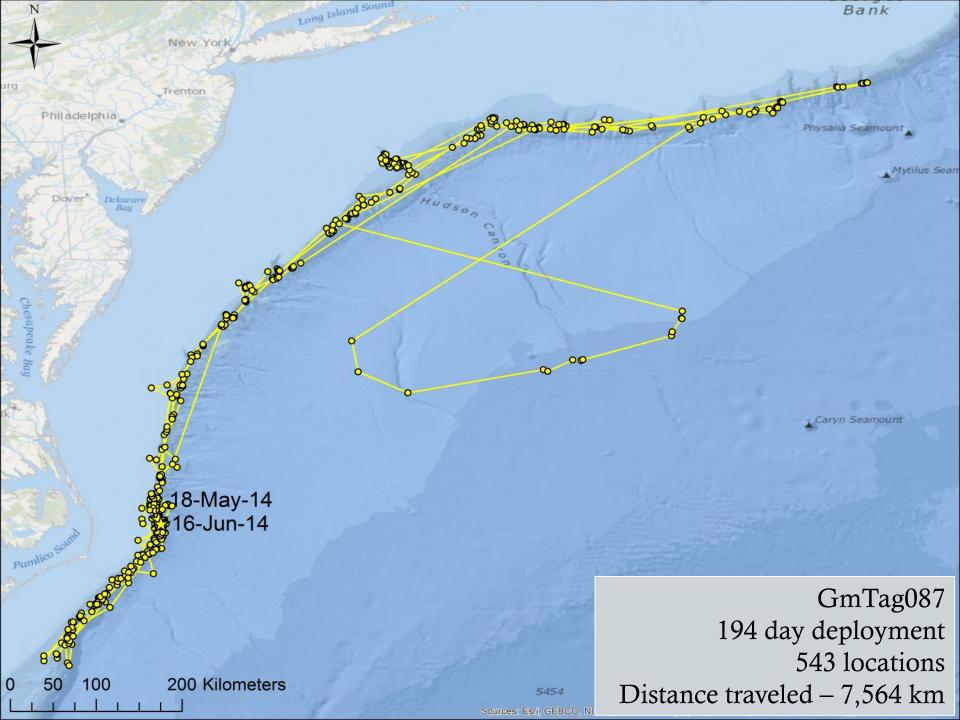
Photo-Id of satellite-tagged animals



3 of 15 distinct individuals (20%) matched to catalog

1 re-sight with tag





GmTag087

18 May 2014 – 28 November 2014

194 day deployment – 543 locations – 7,564 km traveled



Conclusions

- Short-finned pilot whales exhibit widely-varying and complex movement and spatial use patterns, which may differ by social group
- Despite significant distances traveled, high resighting rates suggest Cape Hatteras is an important area for short-finned pilot whales, indicating the potential for fisheries interactions

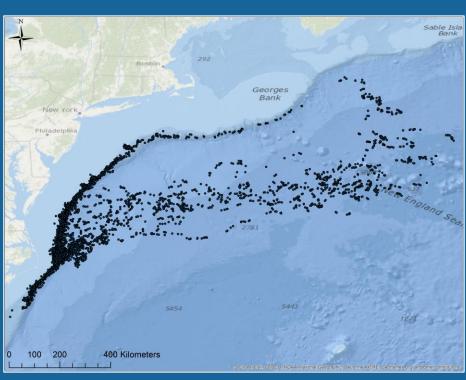




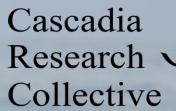
Additional Work

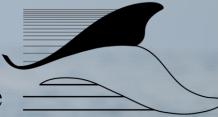
- Habitat models of spatial use
 - -Dr. Lesley Thorne Wednesday 3:20 Foraging Ecology
- Increase sample size (19 tagged in 2015)
 - similar patterns this year (17% matched to catalog, 1 re-sight)
- Additional sites
 - Jacksonville, FL
- Seasonality
 - January May data
 - 6 tags still currently transmitting











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