### Where to for Whales?

Dr Rochelle Constantine School of Biological Sciences University of Auckland

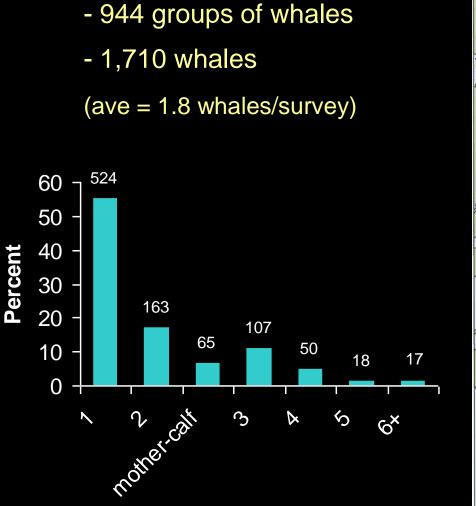
Tikapa Moana Hauraki Gulf State of the Environment Report Launch 9 August 2011

## Bryde's whales in Hauraki Gulf

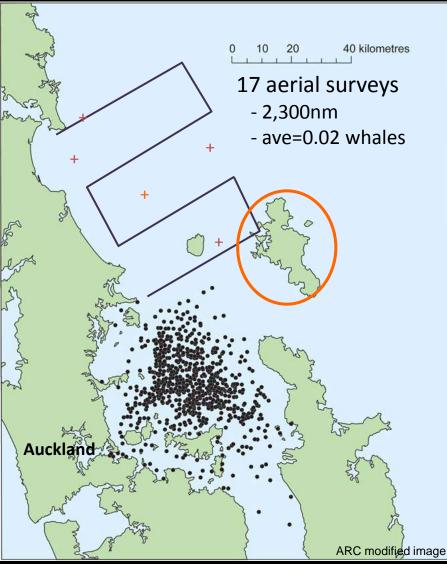
46 (CV = 0.08) Hauraki Gulf core range (Wiseman 2008) Variation in population structure Year round residents; non-migratory Nationally critical (Baker et al. 2010)

# 1989 -2010 46 whales 85% Bryde's whales (n = 39) 16 probable cause of mortality known 13 vessel-strike mortality 3 gear entanglement (Behrens 2009)

### whales concentrated in inner gulf

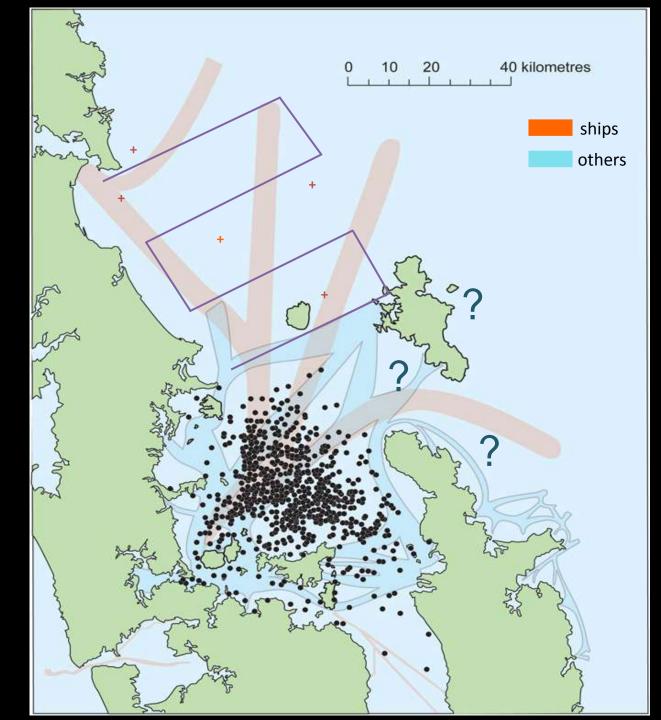


1,820 boat surveys



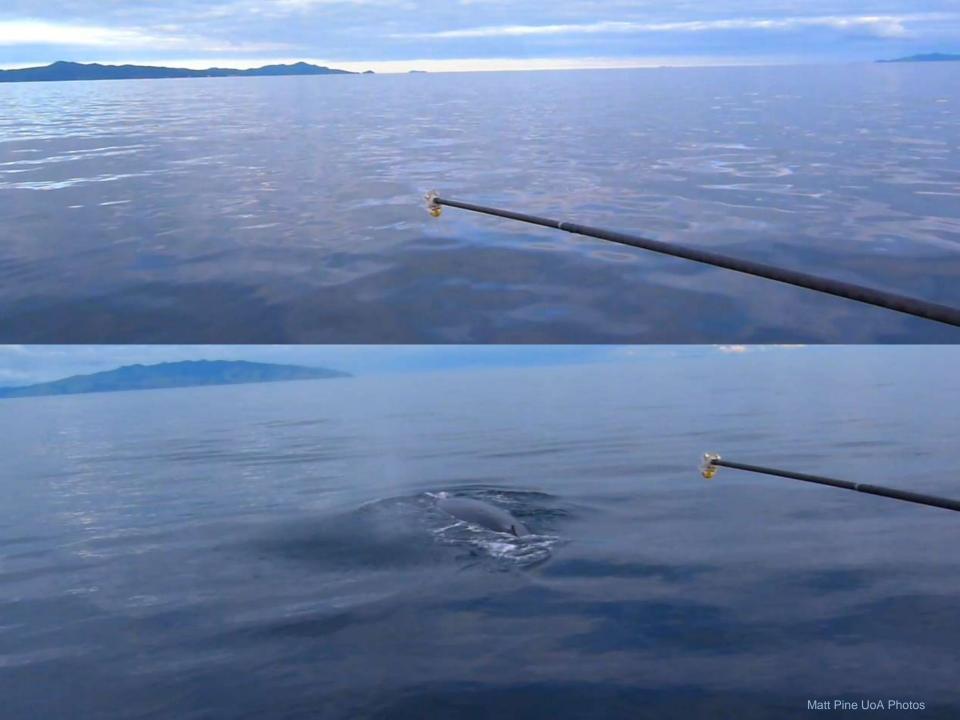
From Behrens 2009

**Group size** 



From Behrens 2009







#### thanks



- Natacha Aguilar Soto, Mark Johnson, Angela Little, Emily Duder, Brady Doak, Murray Birch, Peter Brown, Arthur Cozens & Steph Behrens – University of Auckland
- Tim Higham Auckland Council
- DoC Phil Brown, Martin Stanley & Callum Bourke
- William Goodfellow & crew from Whale & Dolphin Safaris

*Funding* ARC Coastal Enhancement Fund University of Auckland FRDF & Post-Grad Scholarship Department of Conservation Hauraki Gulf Trust Fund