# Acoustic Monitoring of Cetaceans in the SouthWest

What are the long term trends in numbers of cetaceans in our waters?

Nick Tregenza

#### Harbour porpoise Phocoena phocoena



#### Bottlenose dolphin *Tursiops truncatus*



#### Risso's dolphin *Grampus griseus*

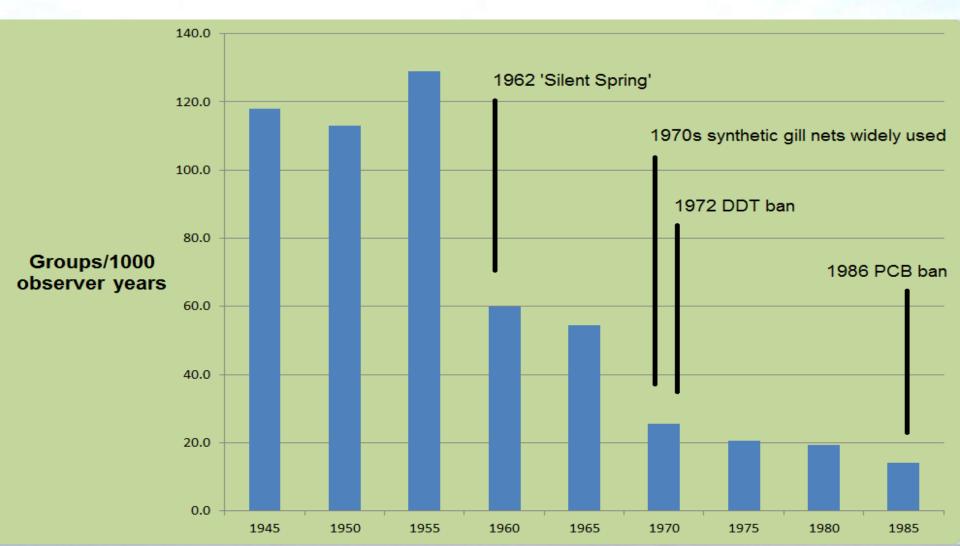


#### Common dolphin Delphinus delphis



# Current knowledge

### Sightings:



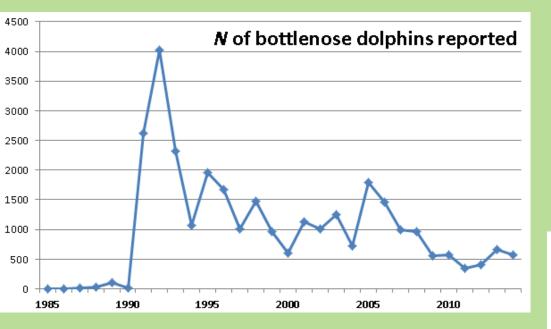
#### Orca Orcinus orca

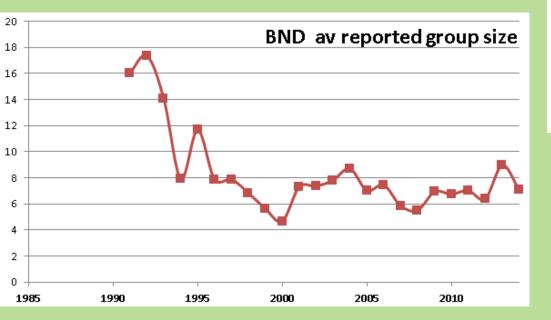




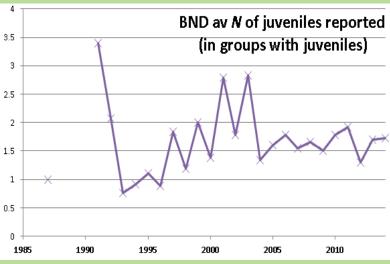
## Bottlenose dolphins - Hooe Lake



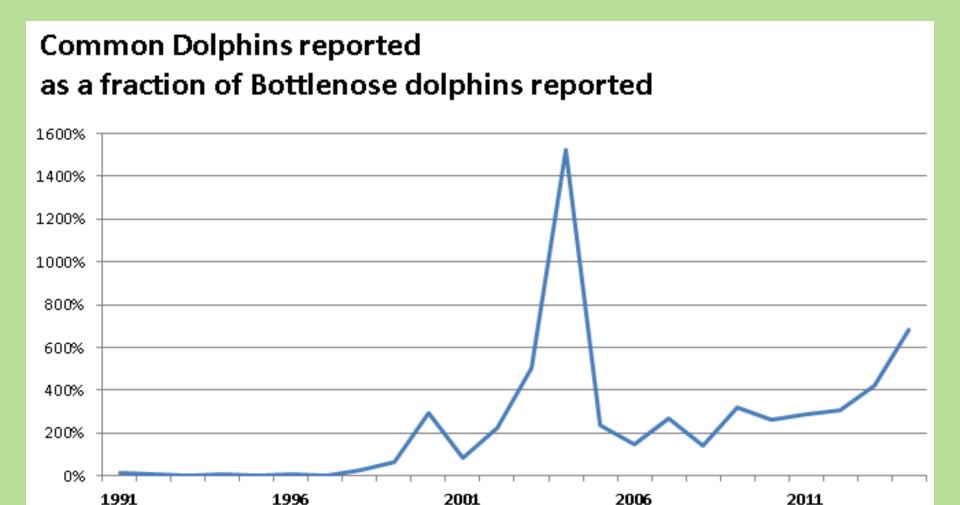




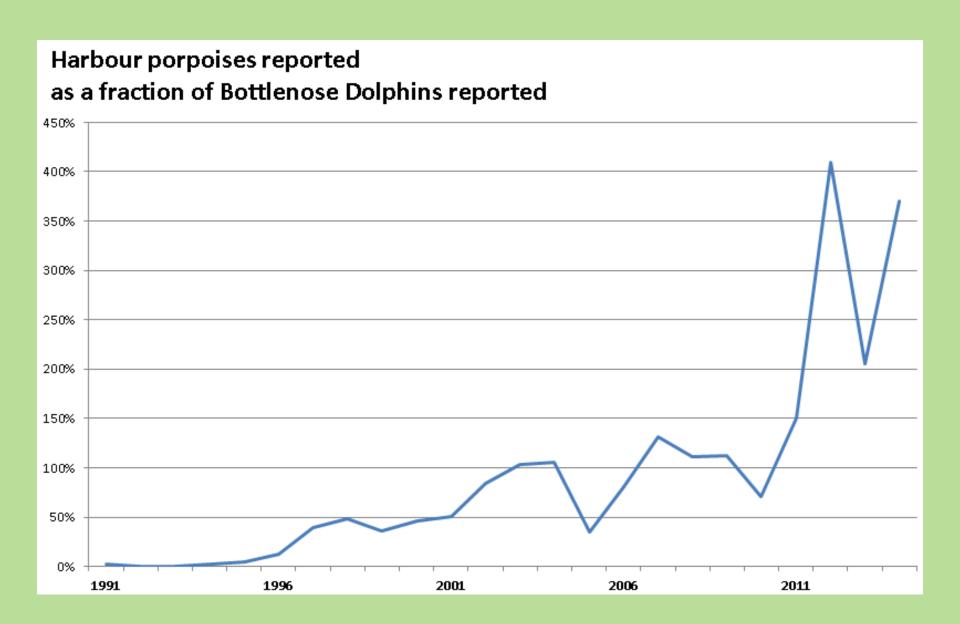
#### Bottlenose dolphins



#### Common dolphins

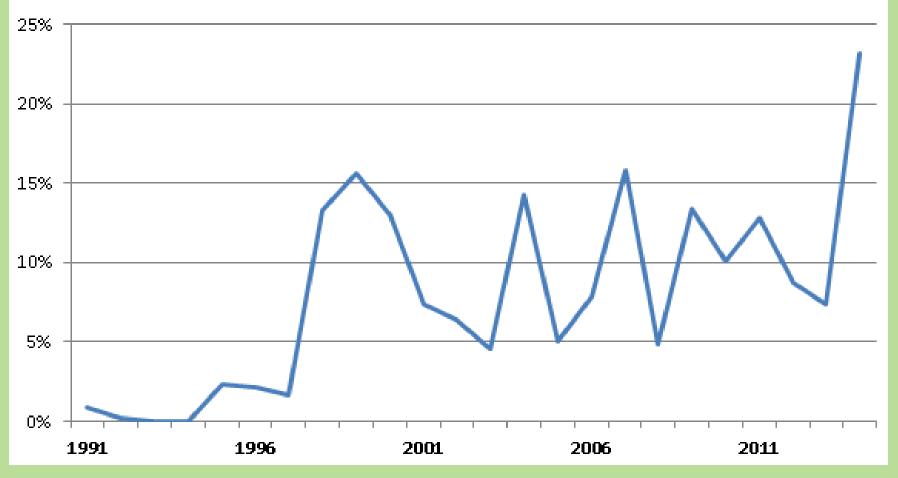


#### Harbour porpoises



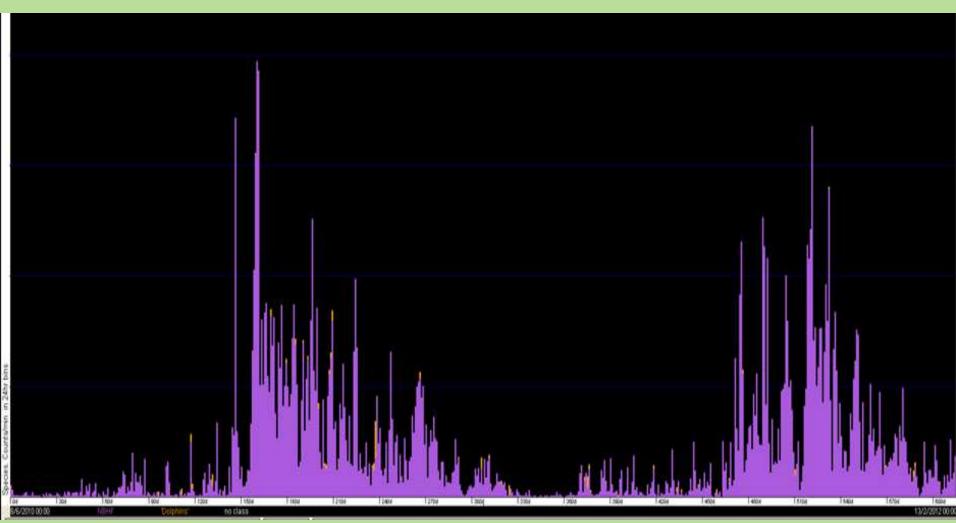
#### Risso's dolphins





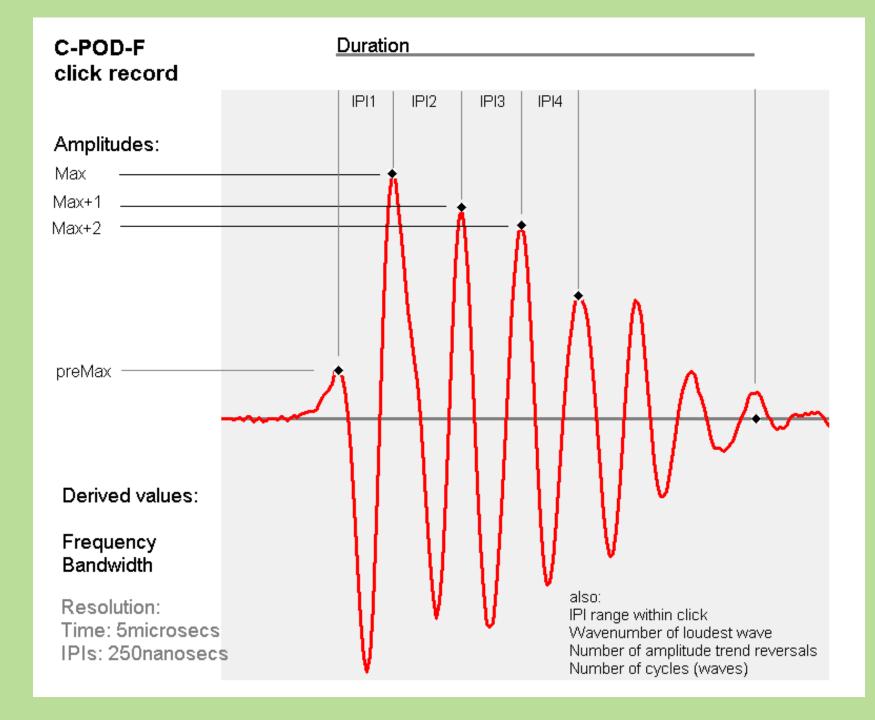
#### Static Acoustic Monitoring at the Runnelstone

... data from Matt Witt, University of Exeter



2 years of data, with Nov – March peaks in porpoise activity





#### Questions SAM could answer:

Long term trends in densities of species groups.

Recovery of former range e.g. porpoises in estuaries.

Seasonal patterns and their variation.

Indications of prey size?

## A citizen science project?



## Summary:

- There have been large recent changes in cetacean populations.
- Changes continue.
- Casual sightings data are useful but weak.
- Dedicated sightings data are limited or expensive.
- Static Acoustic Monitoring could add valuable precision.
- Dive clubs and others might be able to make it relatively cheap.

