



Workshop on Protecting

Lesser Known Species of Cetaceans



ECS



ASCOBANS

ECS-ASCOBANS WORKSHOP:**PROTECTING THE LESSER-KNOWN CETACEANS OF THE NE ATLANTIC**

Aula Darwin Room, University of Catania, Via Empedocle, 58, Catania, Sicily, Italy

Monday 8 April 2024, 08:30-12:30 CEST

AGENDA
(Approximate Timings)

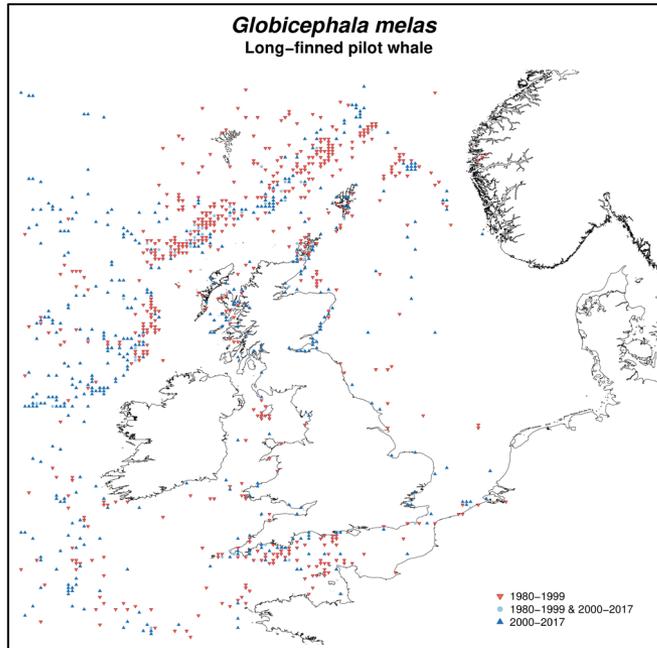
Time	Item	Presenter
08:30	Registration	
08:45	Opening of the Workshop Welcome, Aims of Workshop, tour-de-table introductions	Jenny Renell, Peter Evans & Mark Simmonds
	<i>Chair: Mark Simmonds</i>	
09:00	Questions to Address	Peter Evans
09:10	White-beaked Dolphin	Peter Evans
09:25	Atlantic White-sided Dolphin	Peter Evans
	<i>Chair: Peter Evans</i>	
09:40	Sperm Whale	Daniel Miranda
09:55	Northern Bottlenose Whale	<u>Sascha</u> Hooker
10:10	Beaked Whales	Natacha Aguilar de Soto
10:25	Long-finned Pilot Whale	Philippe <u>Verborgh</u>
	<i>Chair: Jenny <u>Renell</u></i>	
10:40	Killer Whale	<u>Cherine</u> Baumgartner & Ruth Esteban
10:55	<u>Risso's</u> Dolphin	Mark Simmonds
11:10	<i>Break</i>	
	<i>Chairs: Peter Evans & Mark Simmonds</i>	
11:40	Discussion	All
12:20	Conclusions	Peter Evans & Mark Simmonds
12:30	Closing of the Workshop	

Questions to Address

- How can we best determine population trends?
- Can we identify range shifts?
- What role can acoustic monitoring play?
- Which species are most amenable to photo-ID study
- What are the benefits and challenges to telemetry studies?
- Is there a greater need for collaboration between stranding schemes to build sample sizes for examining main causes of death, life history parameters, genetics, diet etc?
- Are there new techniques (e.g. e-DNA) that could be used more?
- How best to identify major pressures from anthropogenic activities?

DETERMINING DISTRIBUTIONS & ABUNDANCE

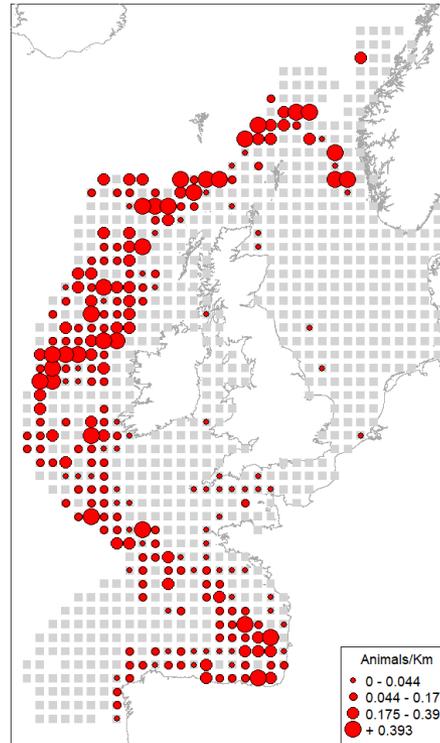
Incidental Sightings



(Evans & Waggitt, 2020a)

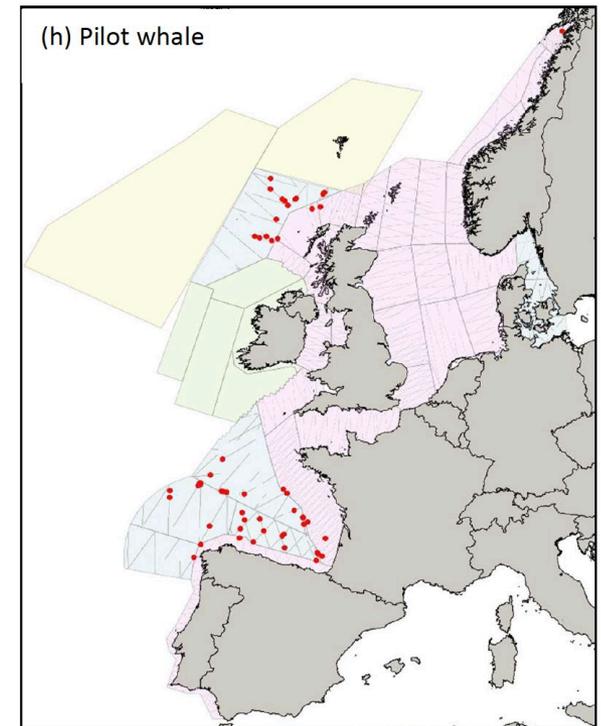
Long-finned Pilot Whale

Dedicated Surveys



(Waggitt *et al.*, 2020)

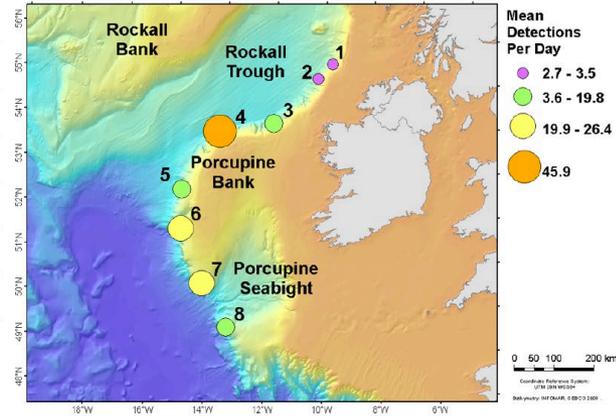
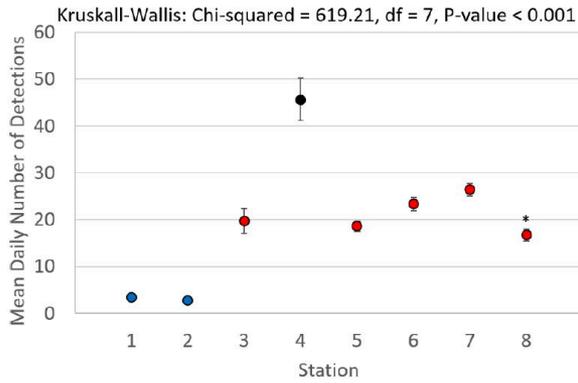
SCANS-3 Survey



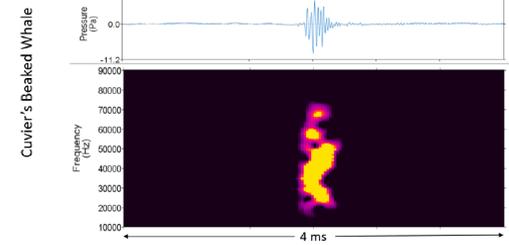
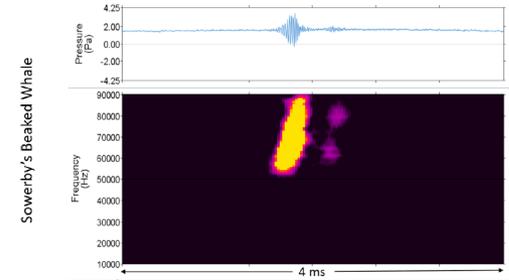
(Hammond *et al.*, 2021)

ACOUSTIC MONITORING

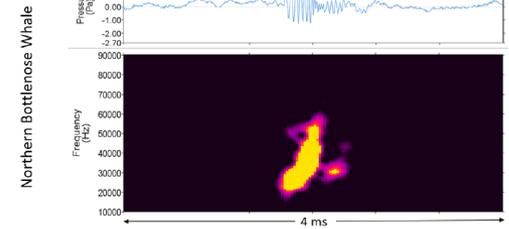
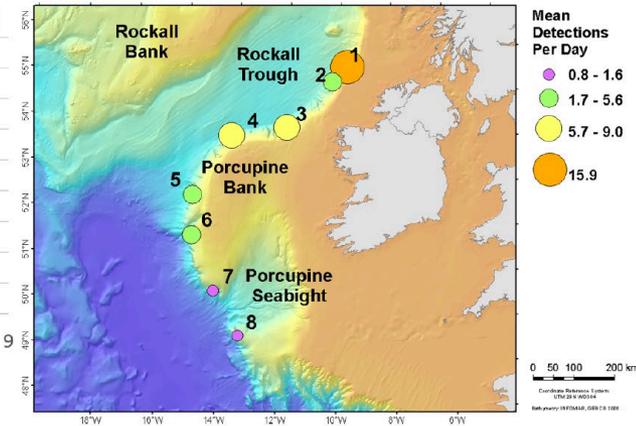
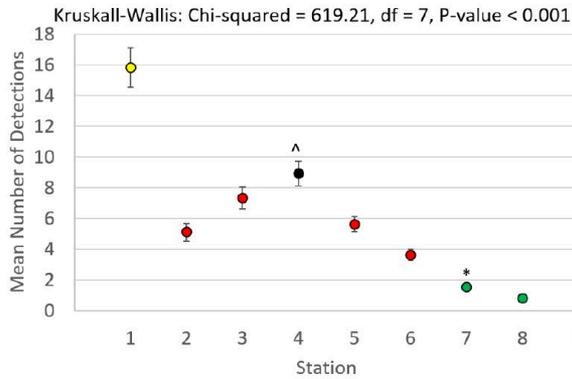
Cuvier's Beaked Whale



Sowerby's Beaked Whale clicks



Sowerby's Beaked Whale



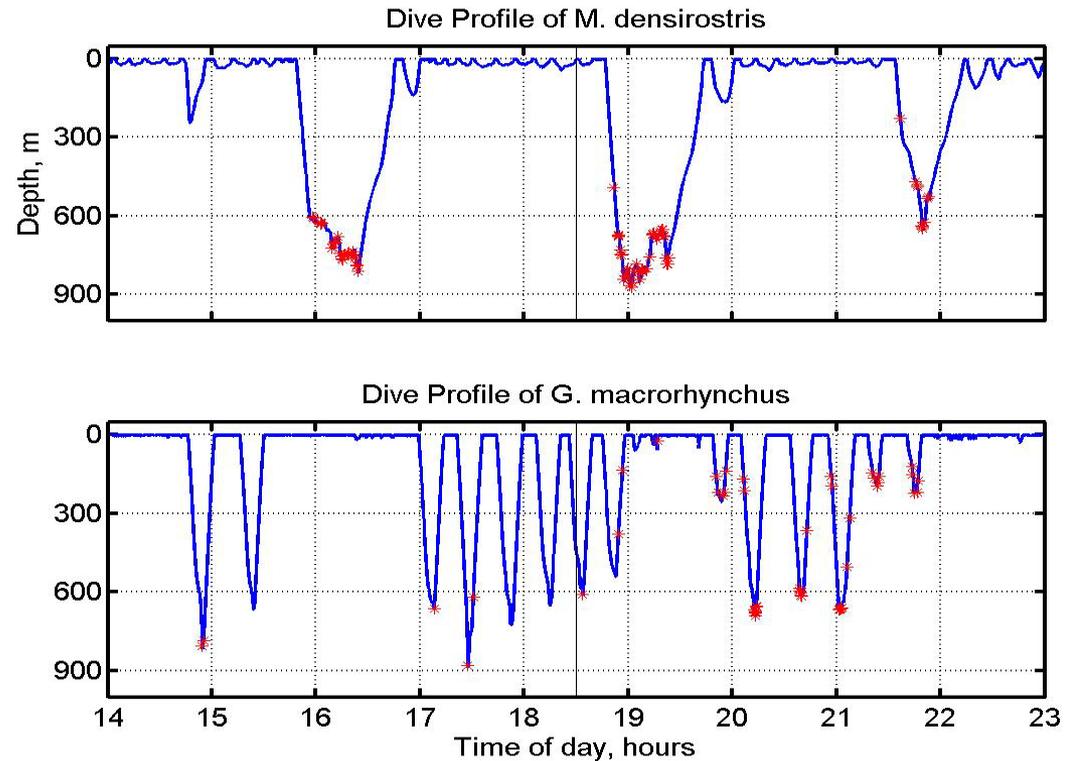
(Source: Kowarski *et al.*, 2018)

TELEMETRY STUDIES

*Tracking individual
Long-finned Pilot Whales*



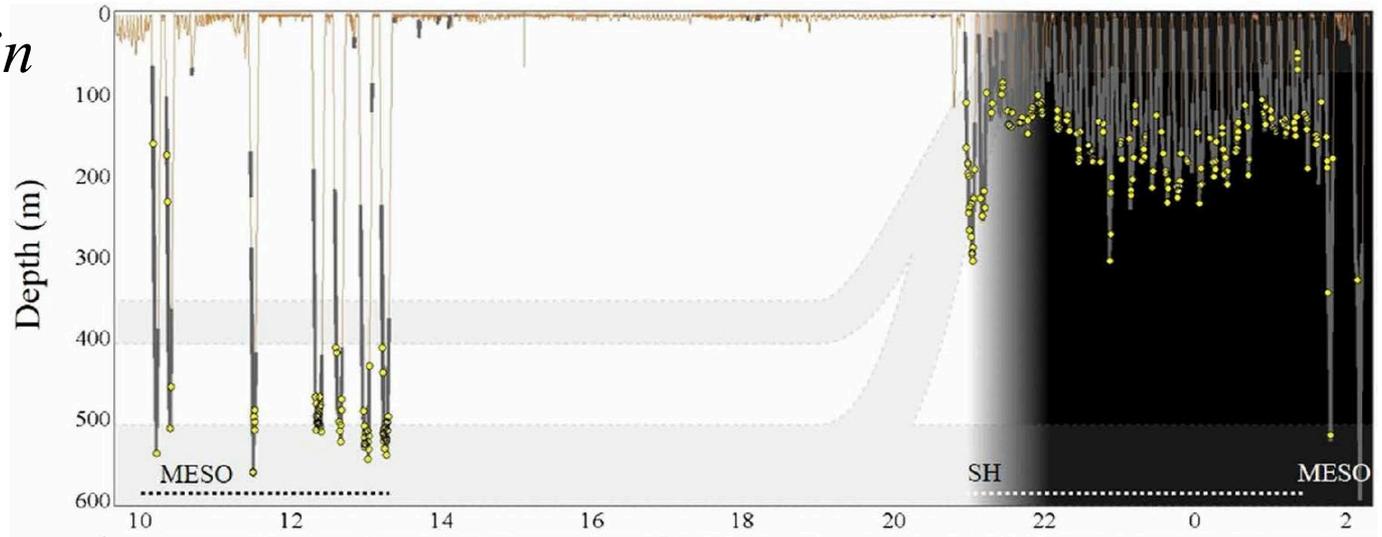
*Dive Profiles of
Blainville's Beaked Whale &
Short-finned Pilot Whale*



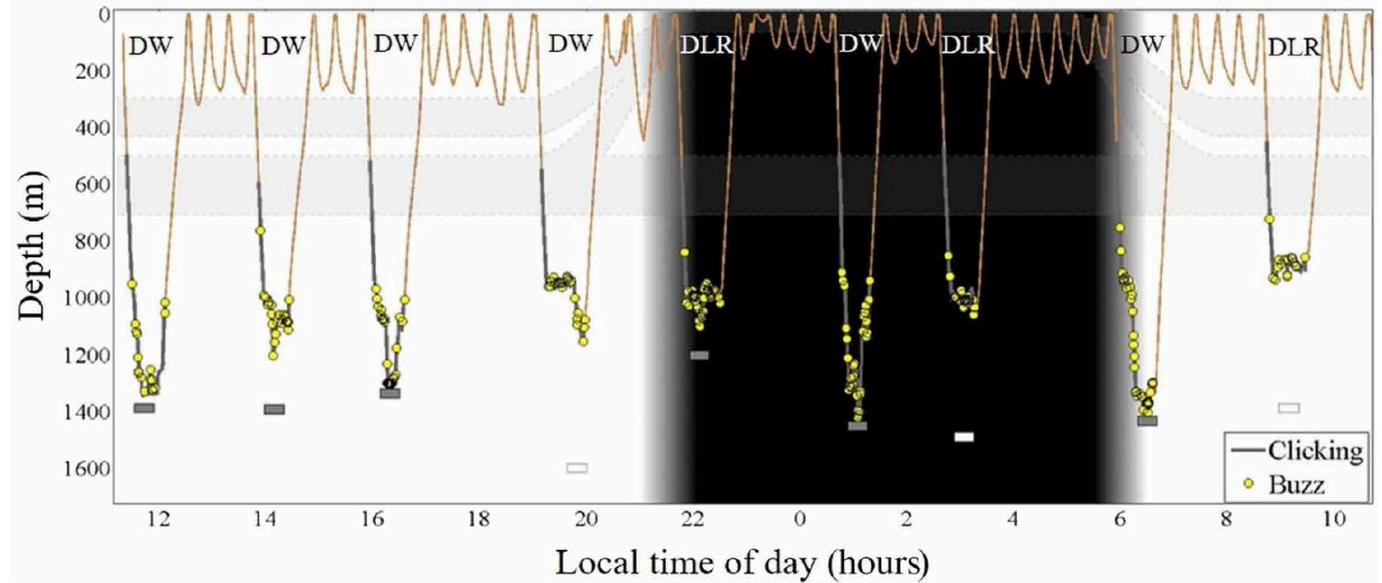
(Source: N. Aguilar de Soto *et al.*, 2008, 2013)

TELEMETRY STUDIES

Risso's Dolphin



Cuvier's Beaked Whale



(Source: Visser *et al.*, 2019)

PHOTO-ID MATCHES IN WESTERN UK

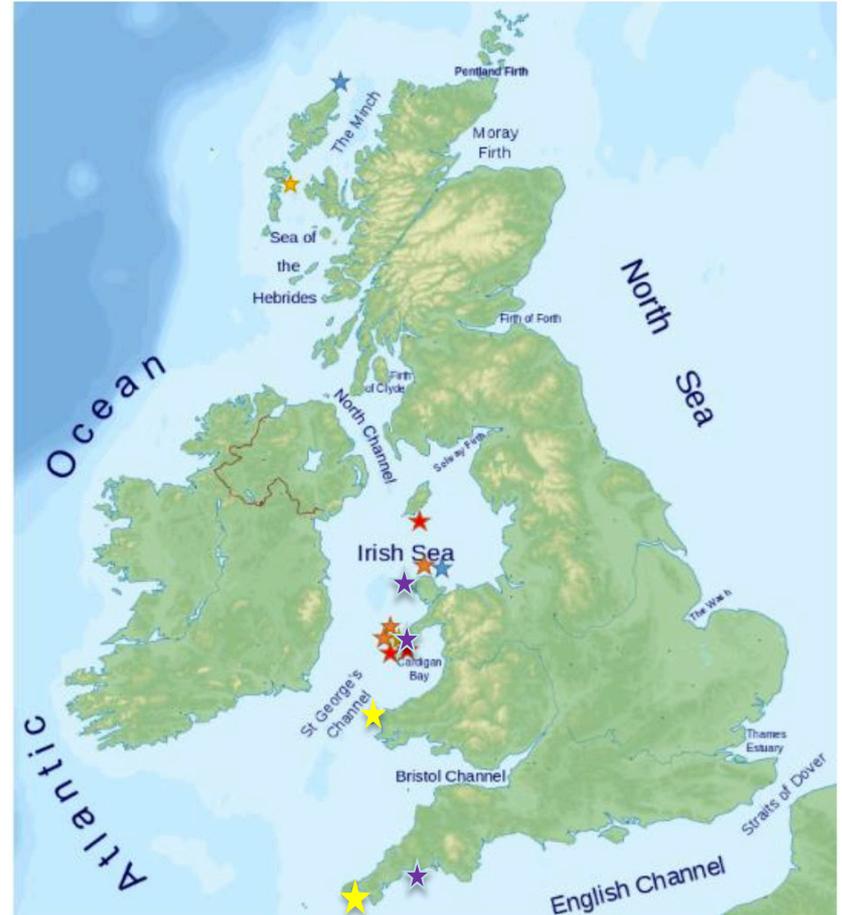
a)



b)



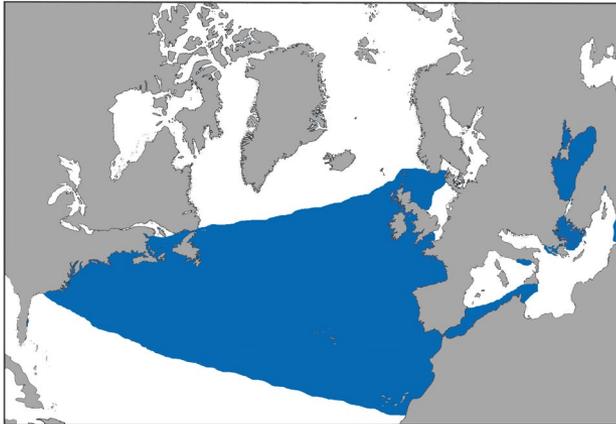
Risso's dolphin probable female (no. 21AN20) photographed off north Anglesey in Oct 2015 (top), and re-sighted in April 2021 in Cornwall (bottom). It was also sighted in the Isle of Man in 2005.



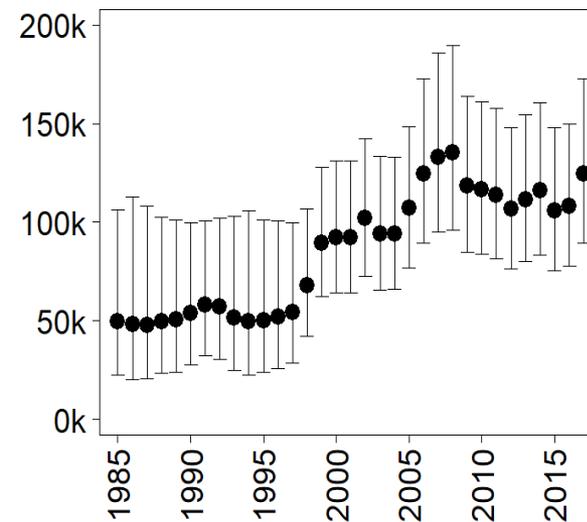
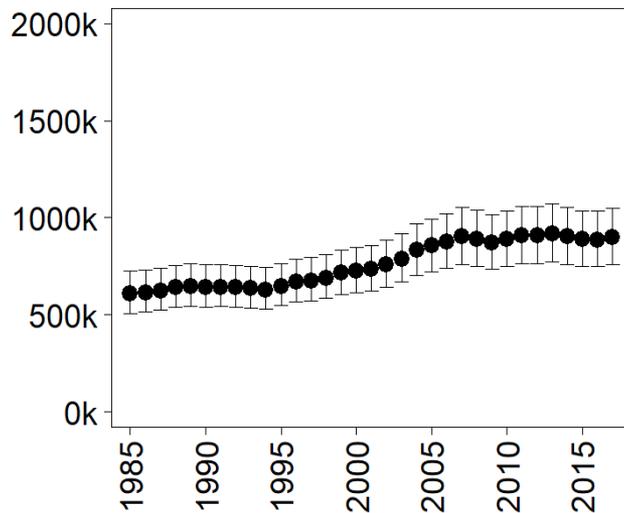
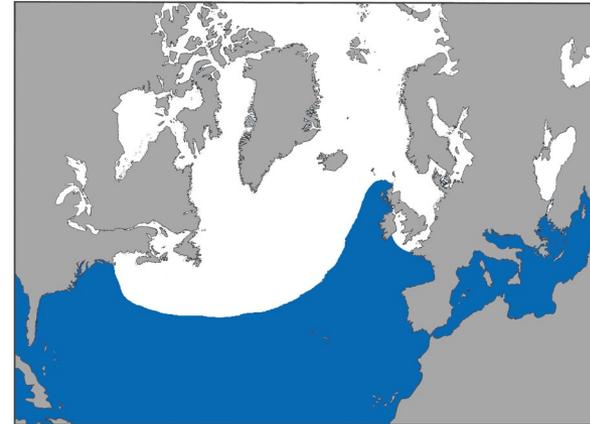
(Source: Mandlik, 2020; Smith, 2023)

CLIMATE CHANGE IMPACTS UPON MARINE MAMMALS

Common Dolphin



Striped Dolphin



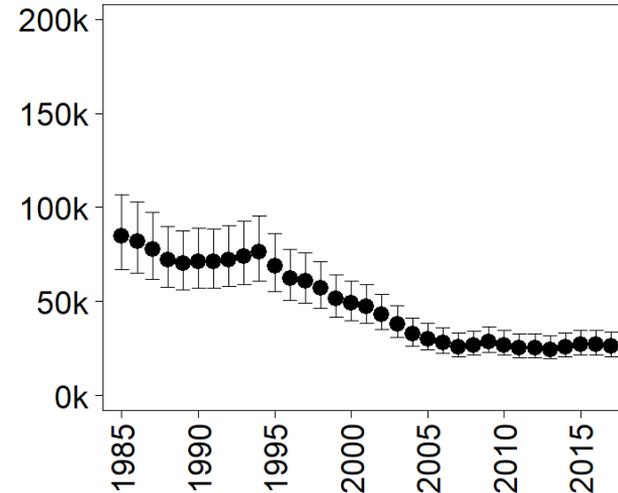
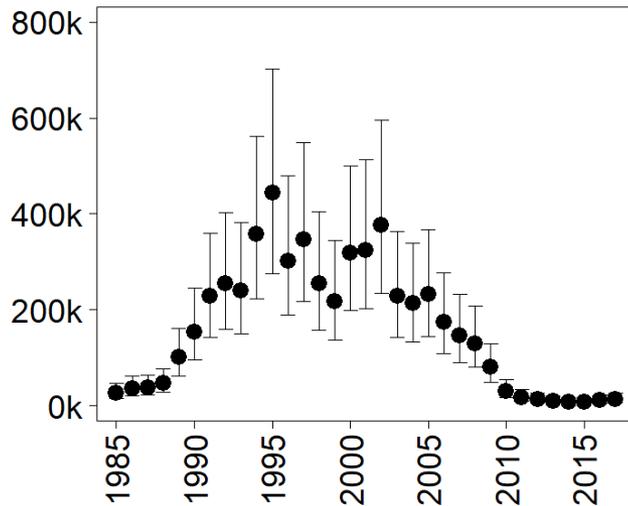
(Source: Evans & Waggitt, 2020b)

CLIMATE CHANGE IMPACTS UPON MARINE MAMMALS

Atlantic White-sided Dolphin



White-beaked Dolphin



(Source: Evans & Waggitt, 2020b)

Beaked Whale Mass Strandings, NE Atlantic, June-Sept 2018



Number of Strandings: 76 Cuvier's beaked whales
5 Sowerby's beaked whales
9 Northern bottlenose whales
4 beaked whale sp.

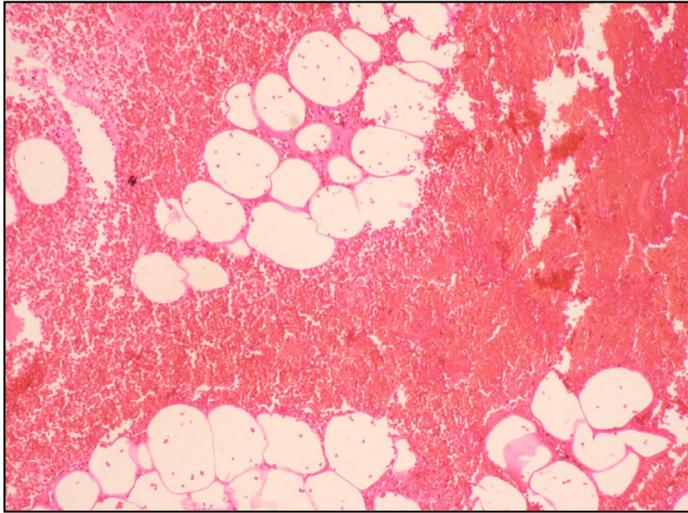
NATO “Dynamic Mongoose” Exercise



- 25 June – 6 July 2018
- Involving 7 warships, 3 maritime surveillance aircraft and 2 submarines
- Participating nations include Norway, Denmark, Germany, Poland, the Netherlands, Spain, Turkey and USA

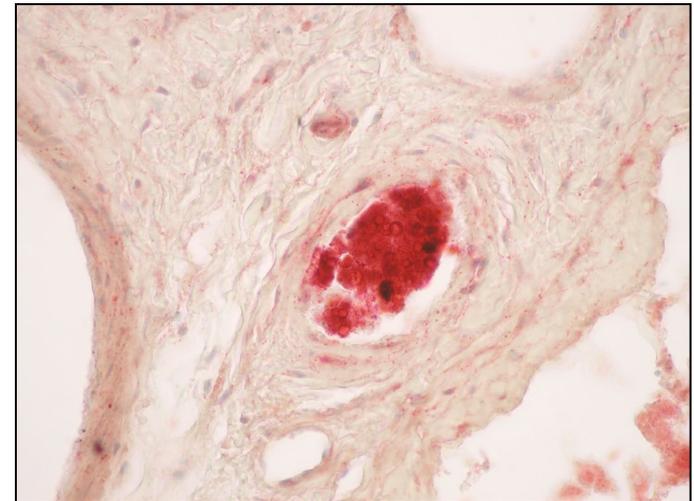
MICROGRAPHS FROM STRANDED BEAKED WHALES

Canaries, September 2002



a) Severe haemorrhage in the acoustic fat (stained with hematoxylin-eosin)

b) Intra-vascular fat emboli in a portal vessel of the liver (red oil staining)



(Source: Fernández, 2003)