

Reporting cetacean mortality related to ships strikes: the Italian experience.



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Total strandings (1986 - 2009) 3826 animals



Species

N° Animals

<i>Balaenoptera acutorostrata</i>	4
<i>Balaenoptera physalus</i>	70
<i>Delphinus delphis</i>	36
<i>Globicephala melas</i>	50
<i>Grampus griseus</i>	138
<i>Kogia simus</i>	2
<i>Megaptera novaeangliae</i>	1
<i>Mesoplodon europaeus</i>	1
<i>Physeter macrocephalus</i>	142
<i>Pseudorca crassidens</i>	3
<i>Stenella coeruleoalba</i>	1633
<i>Steno bredanensis</i>	7
<i>Tursiops truncatus</i>	841
Undetermined	830
<i>Ziphius cavirostris</i>	68

1986 - 2009 : 39 collided whales

Species	Tot. stranded	Tot. collided	% stranded	% collided	notes
<i>Balaenoptera physalus</i>	70	15	21,4%	26,8%	2 with propeller wounds 6 collision/on the bow 7 reported
<i>Physeter macrocephalus</i>	142	6	4,2%	10,7%	4 with propeller wounds 2 reported
<i>Balaenoptera acutorostrata</i>	4	1	25%	1,8%	1 fractured skull

1986 – 2009 : 17 collided small cetaceans

Species	Total stranded	Total Collided	% on stranded	% on collided
<i>Ziphius cavirostris</i>	68	1	1,5%	1,8%
<i>Stenella coeruleoalba</i>	1633	11	0,7%	19,6%
<i>Tursiops truncatus</i>	841	5	0,6%	8,9%

Collisions all species 1986-2009



Tot fin whales strandings 1986-2009



Fin whales collisions 1986-2009



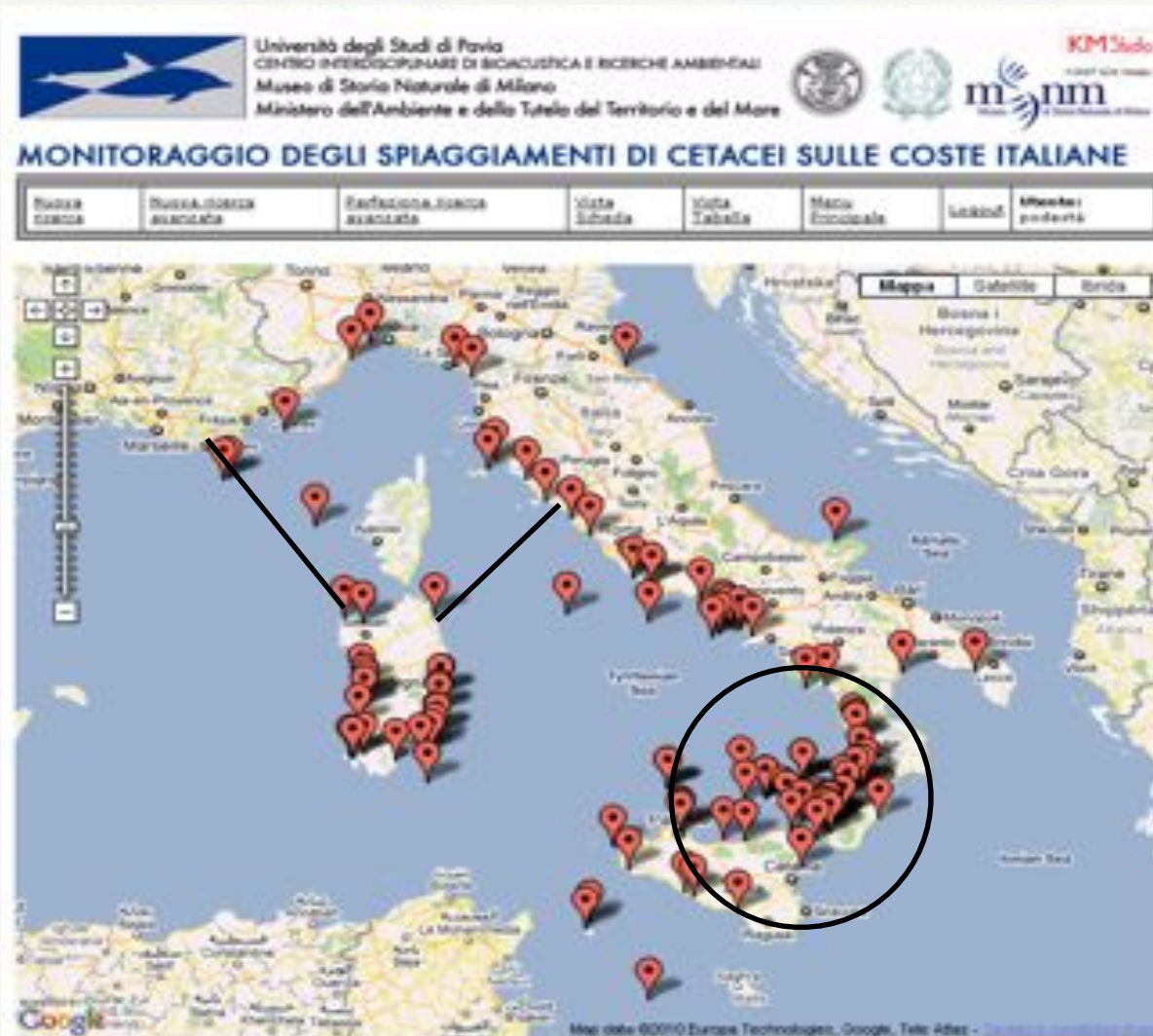
Genova 1991



Genova 2001



Tot sperm whales stranding 1986 - 2009



Sperm whales collision 1986 - 2009



Savona 1987





Large whales necropsy unit



MINISTERO DELL'AMBIENTE
E DELLA TUTELA DEL TERRITORIO E DEL MARE



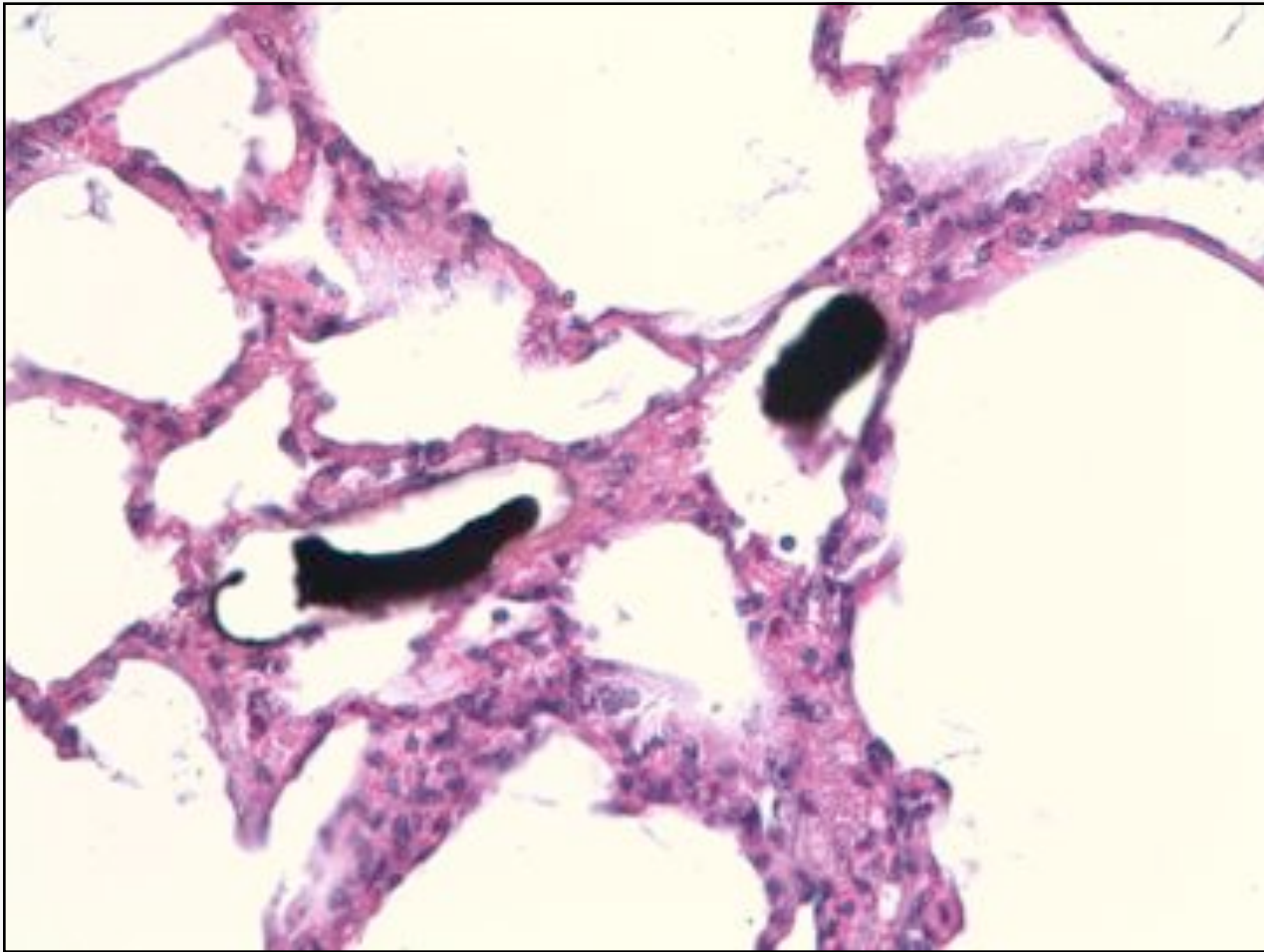
Equipment

Pugliares, K., S. Herzig, A. Bogomolni, C. Harry, K. Touhey and M. Moore. Marine Mammal Necropsy: an introductory guide for stranding responders and field biologists. Woods Hole Oceanographic Institution

- ✓ Cutting tools
- ✓ Measuring tools
- ✓ Cameras
- ✓ Sampling equipment
- ✓ Safety devices
- ✓ Diving equipment



“En bloc” OsO₄ post fixation for fat emboli



Large cetaceans necropsies and consultancies (2006-2010)

Species	n. animals	n. strandings	collided
Fin whales	4	8	0
Sperm whales	8	17	0
Beaked whales	2	7	0

Missed necropsies





Stranding networks: proposal





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Thanks