



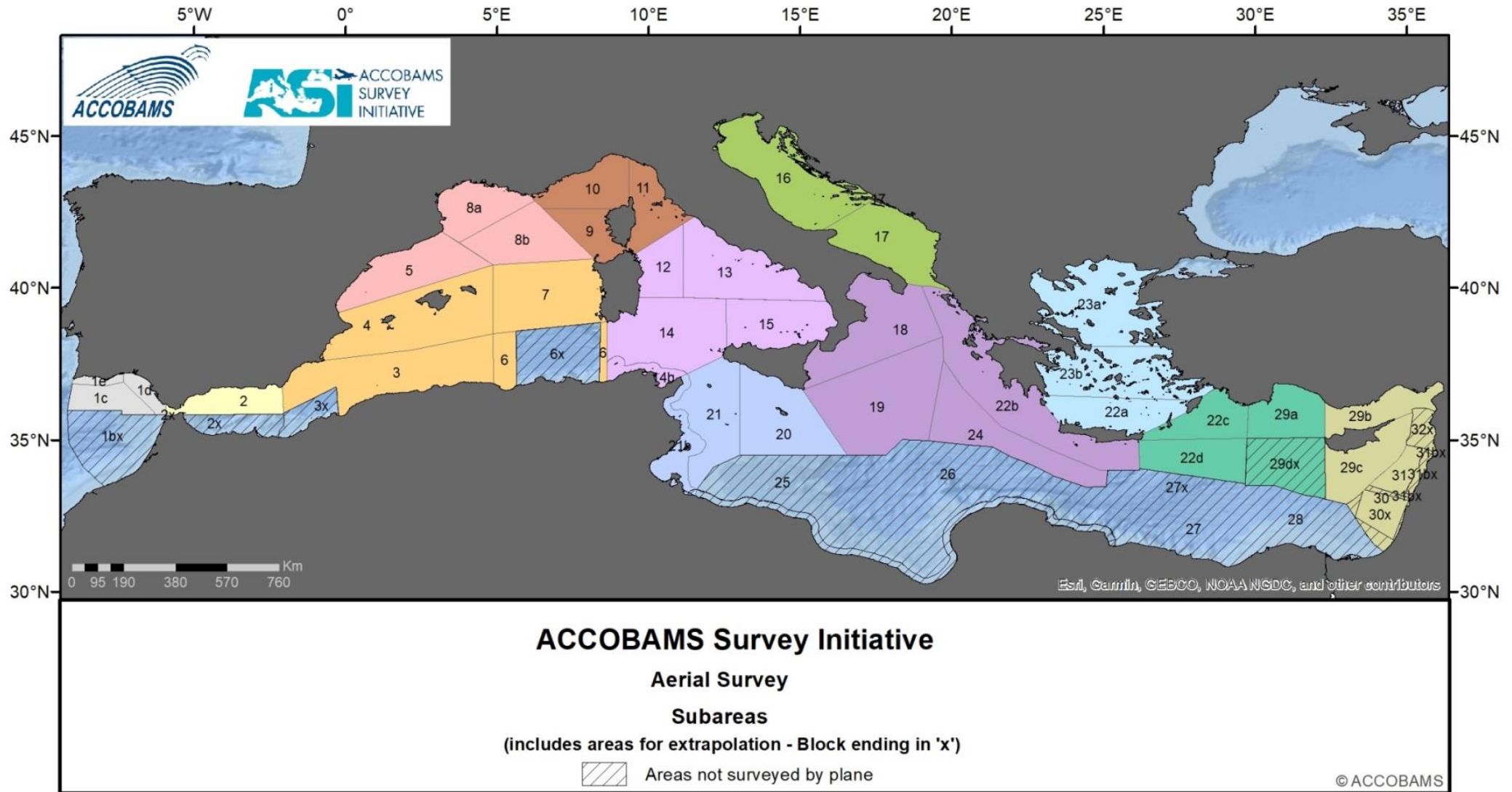
Estimates of abundance and distribution
of cetaceans, marine mega-fauna and
marine litter in the Mediterranean Sea
from 2018-2019 surveys



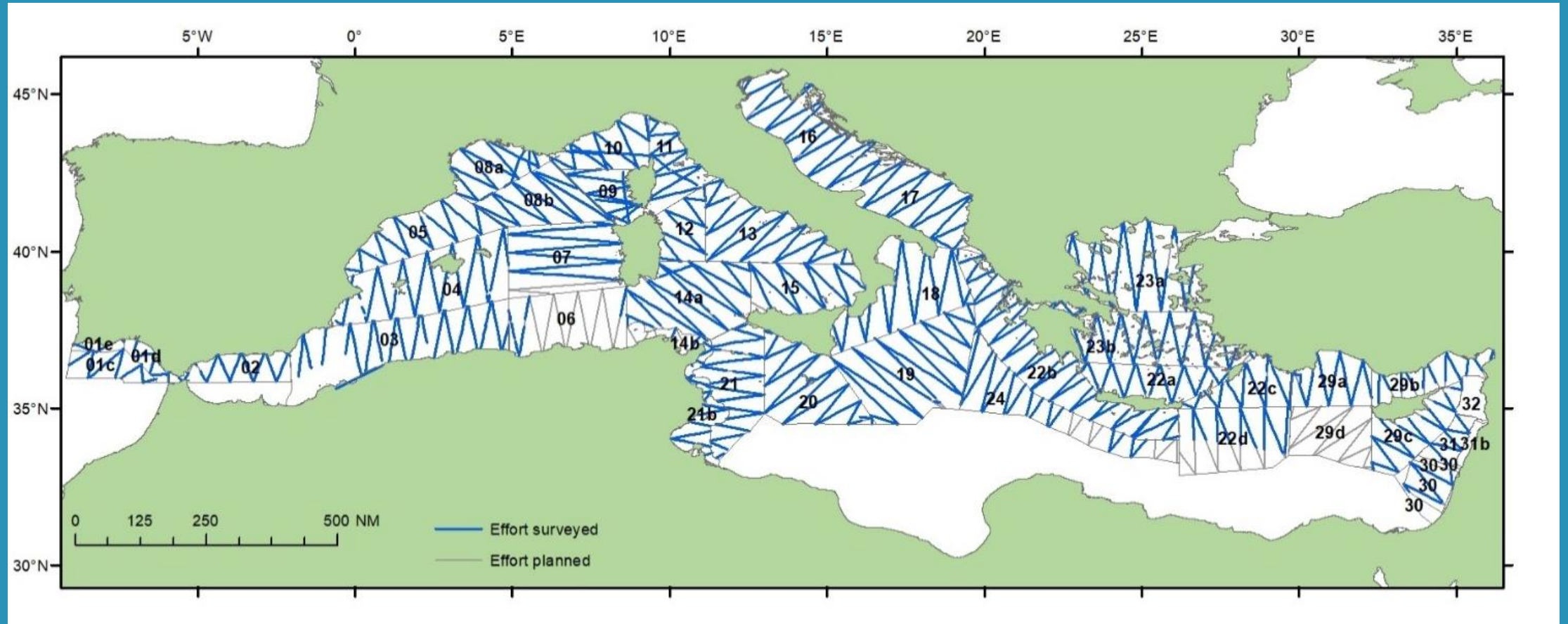
Overview of the ASI Results in the Mediterranean Sea

ACCOBAMS, 2021. Estimates of abundance and distribution of cetaceans, marine mega-fauna and marine litter in the Mediterranean Sea from 2018-2019 surveys. By Panigada S., Boisseau O., Canadas A., Lambert C., Laran S., McLanaghan R., Moscrop A. Ed. ACCOBAMS - ACCOBAMS Survey Initiative Project, Monaco, 177 pp.

AERIAL SURVEY BLOCKS

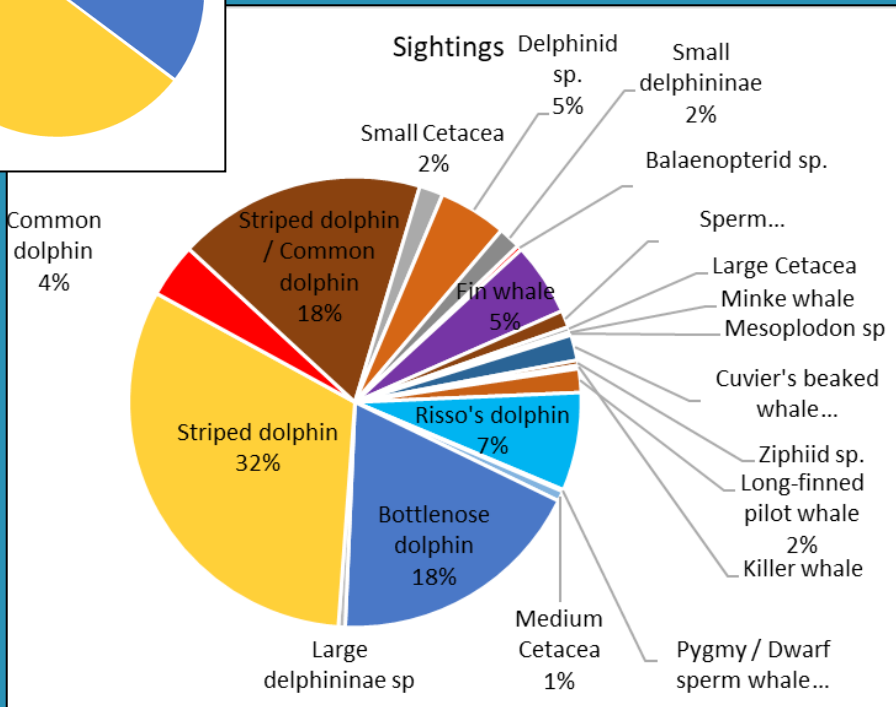
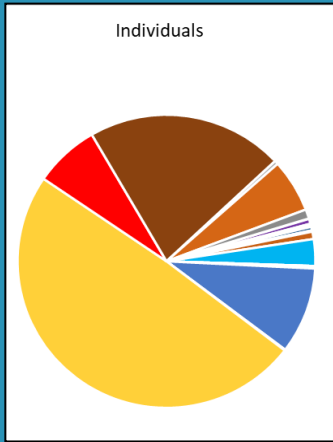


TOTAL AERIAL EFFORT



The different blocks and sub-blocks with planned transects (in grey) and effort achieved (in blue).

DATA COLLECTED & ANALYSIS PROCESS



Cetaceans

1,672 sightings
22,652 animals
in total

Other
Vertebrates

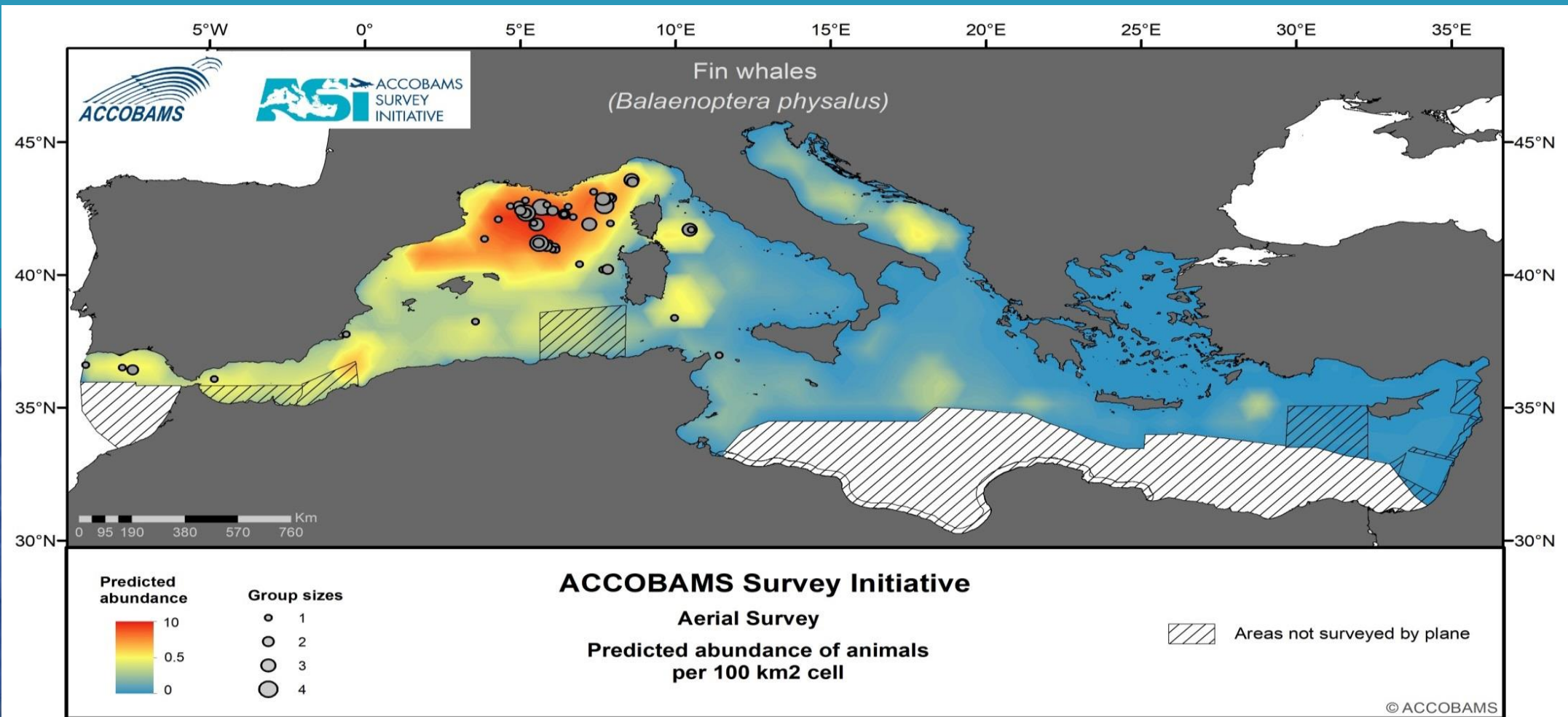
1,245 sightings
11,431 animals
in total

Species composition of sightings of cetaceans collected on effort during the aerial survey, in percentage of sightings and of individuals (L).

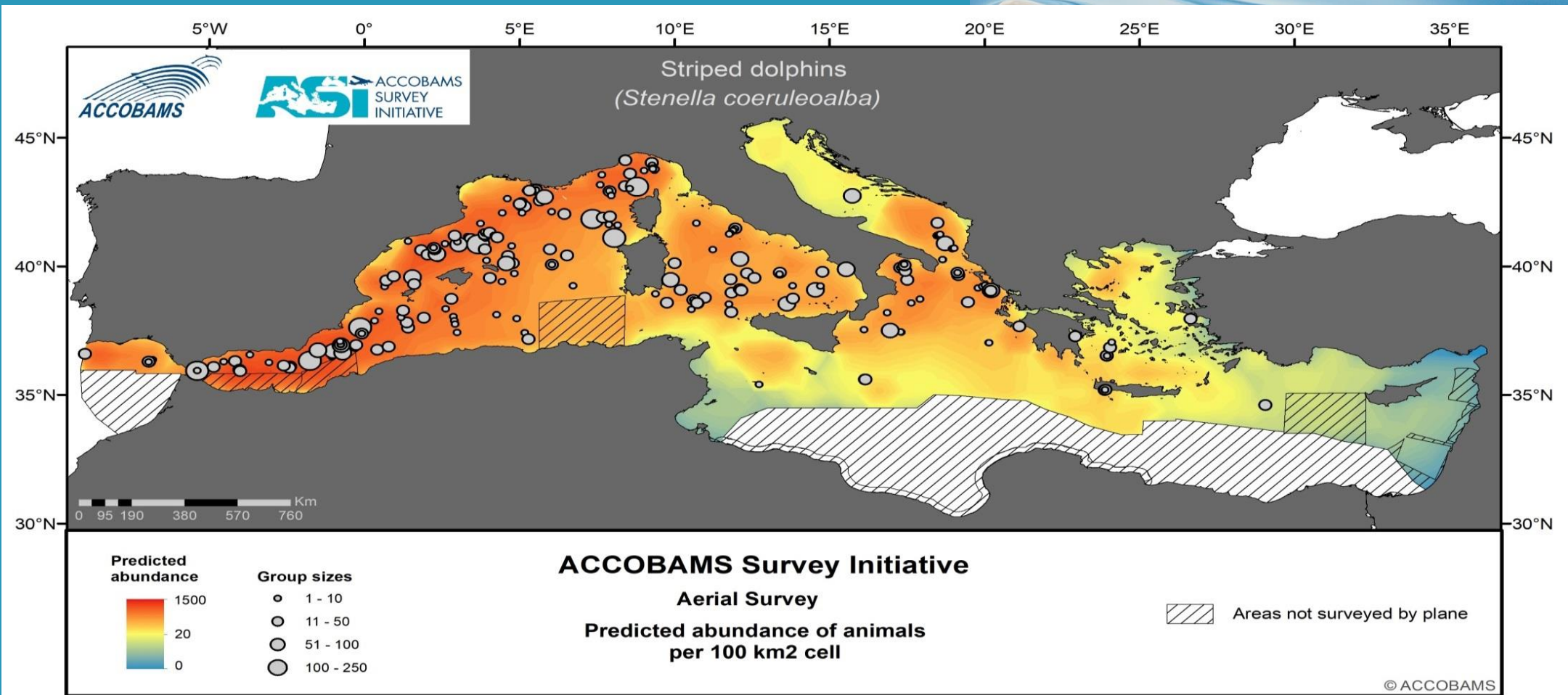
ABUNDANCE ESTIMATES

- 1,500 sperm whales (CV 51%)
- 26,700 Risso's dolphins (CV 29%)
- 6,000 long-finned pilot whales (CV 40%)
- 66,000 common dolphins (CV 40%)
- 3,700 beaked whales (CV 36%)

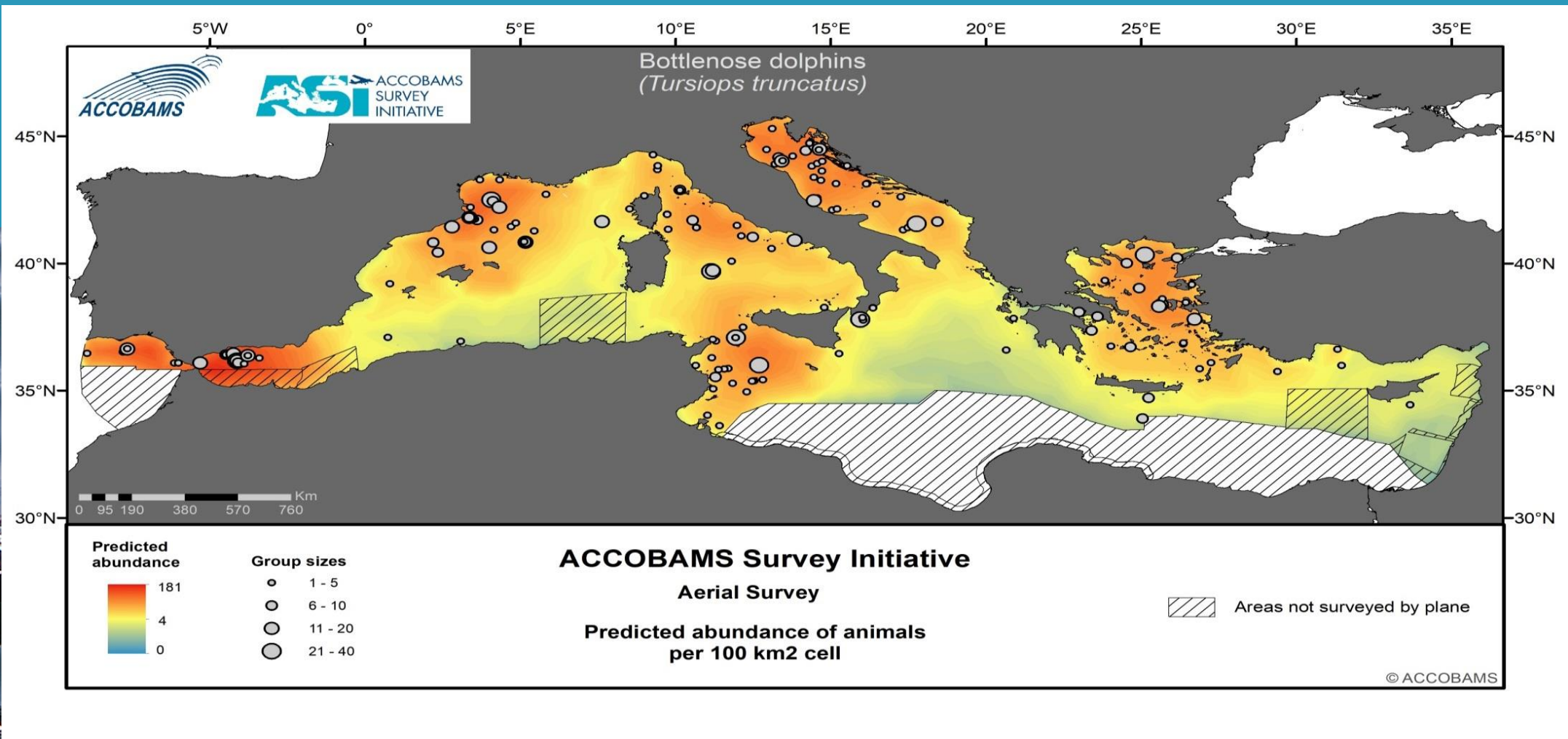
FIN WHALES – 1,700 (CV 28%)



STRIPED DOLPHINS - 425,000 (CV 14%)

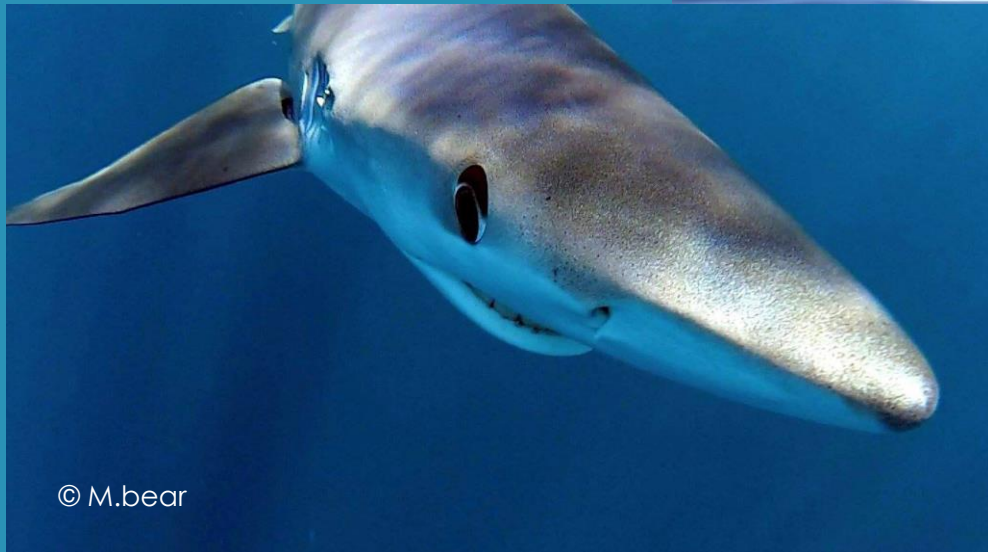


BOTTLENOSE DOLPHINS - 76,000 (CV 21%)



ABUNDANCE ESTIMATES

OTHER VERTEBRATES

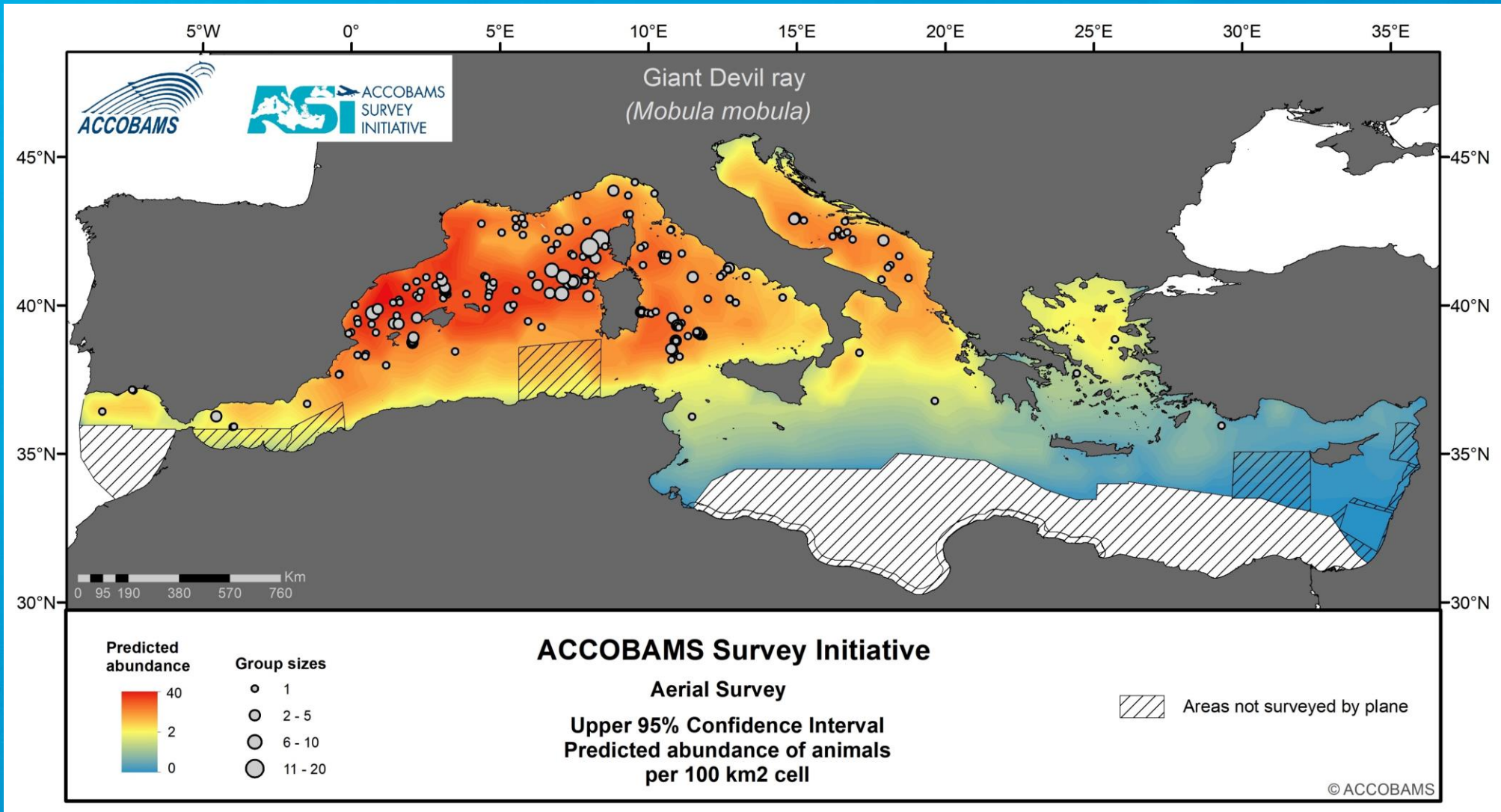


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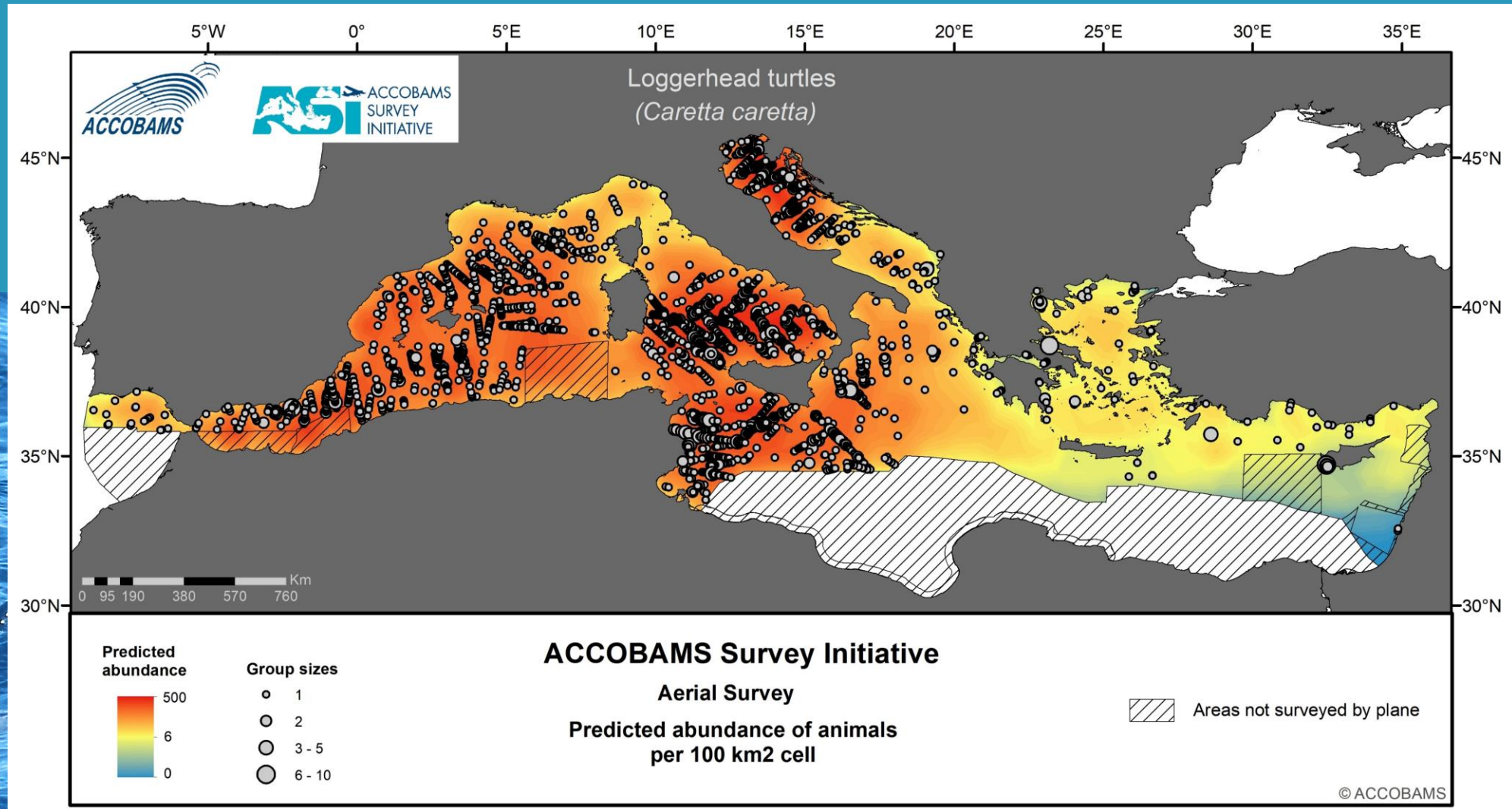


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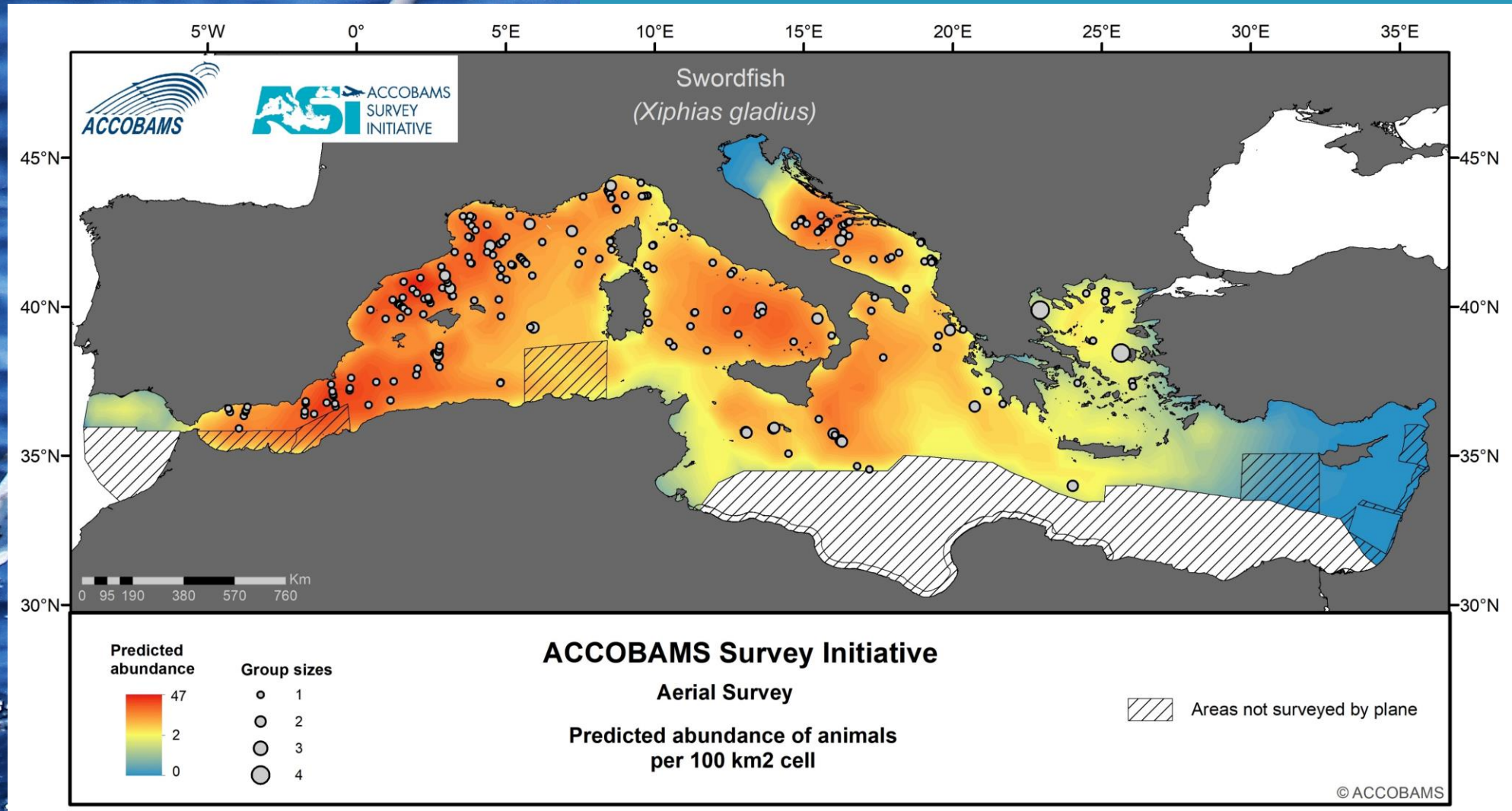
Spinetail devil ray - 25,500 (CV 13%)



Loggerhead turtles - 313,500 (CV 5%)



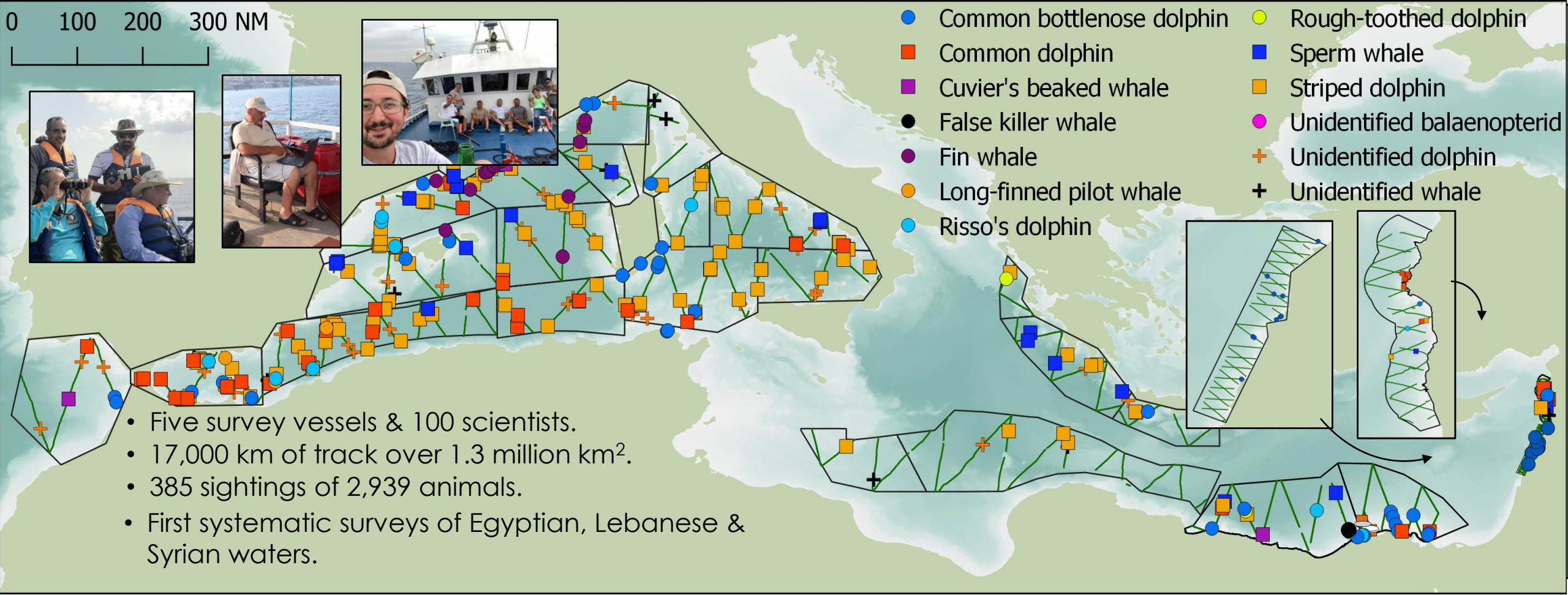
Swordfish - 20,500 (CV 11%)



0 100 200 300 NM



- Common bottlenose dolphin
- Common dolphin
- Cuvier's beaked whale
- False killer whale
- Fin whale
- Long-finned pilot whale
- Risso's dolphin
- Rough-toothed dolphin
- Sperm whale
- Striped dolphin
- Unidentified balaenopterid
- + Unidentified dolphin
- + Unidentified whale

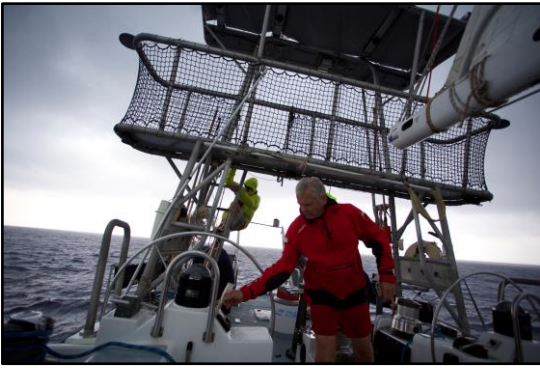


- Five survey vessels & 100 scientists.
- 17,000 km of track over 1.3 million km².
- 385 sightings of 2,939 animals.
- First systematic surveys of Egyptian, Lebanese & Syrian waters.

ASI VESSEL SURVEYS



ACOUSTIC SURVEYS



0 100 200 300 NM

- On track detection
- Off track detection

- High priority for deep-diving toothed whales.
- Can detect whales >20 km away.
- 249 sperm whales detected (but only 10 sightings).
- Total abundance estimate of 4,600 sperm whales.

