



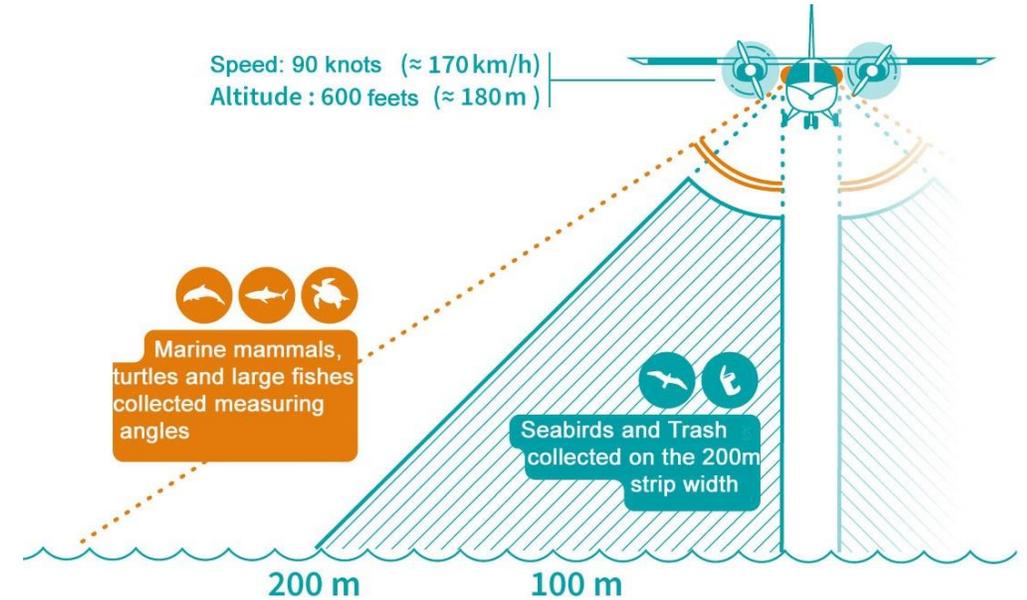
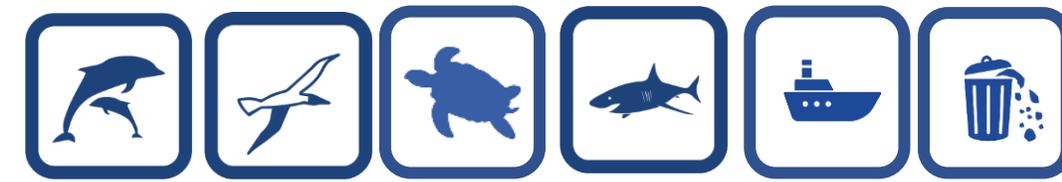
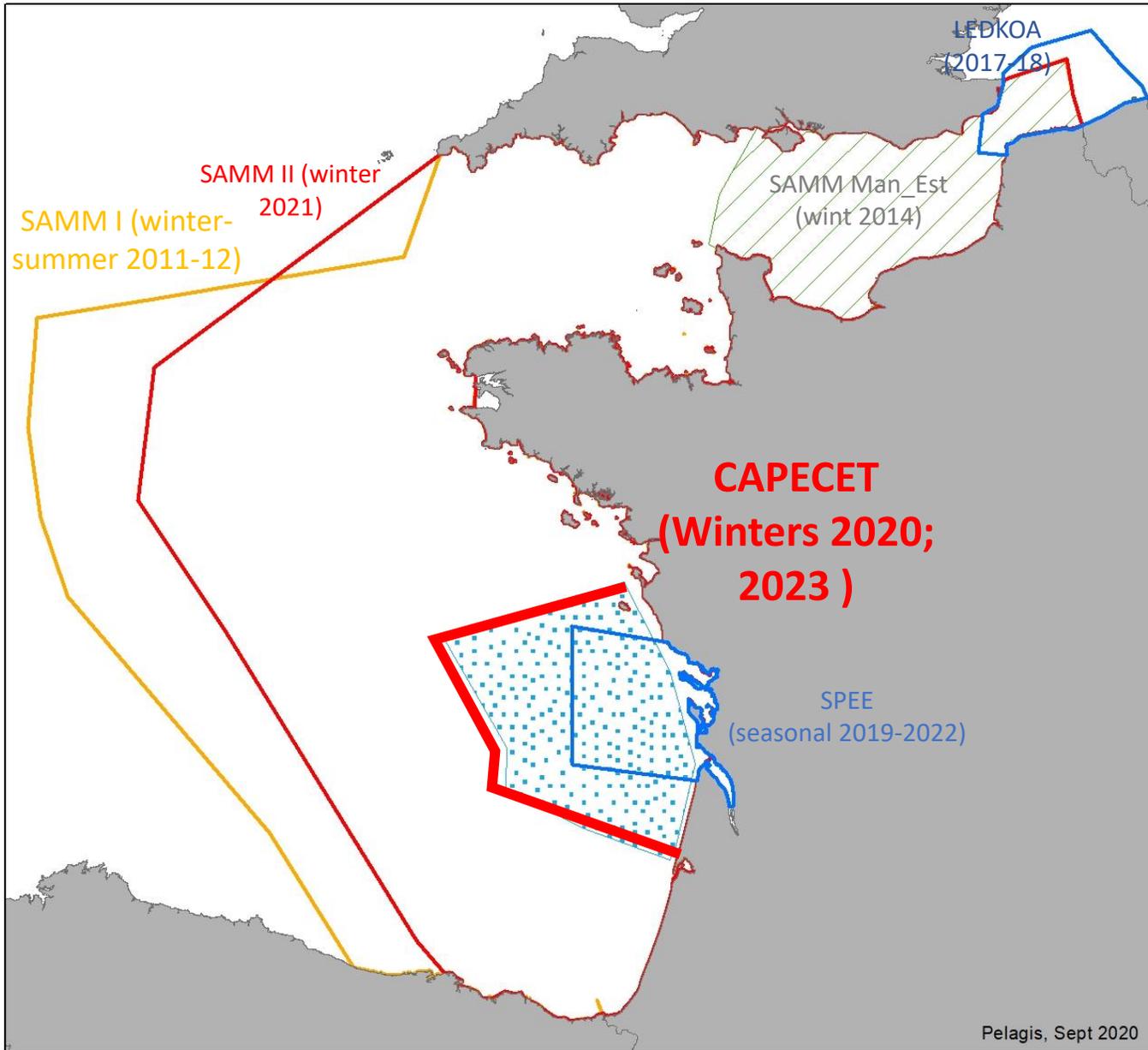
# Aerial surveys for megafauna *CAPECET – 2023 (Delmoges):* Results for Common dolphins

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Ariane BLANCHARD,  
Florence CAURANT,  
Ghislain DOREMUS,  
Mathieu GENU,  
Sophie LARAN,  
Marion PILLET,  
Thierry SANCHEZ,  
Jérôme SPITZ,

...



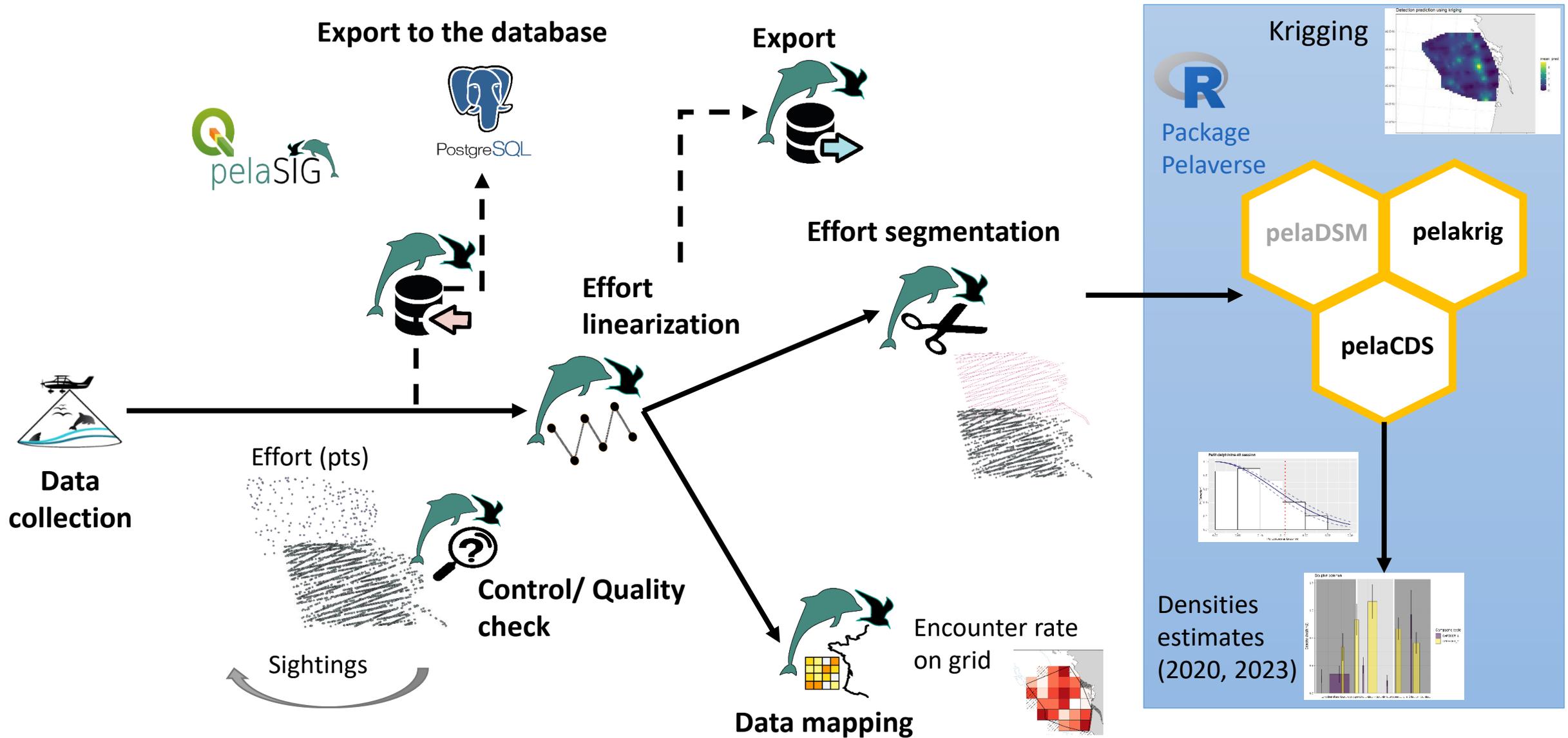
# Aerial surveys for megafauna

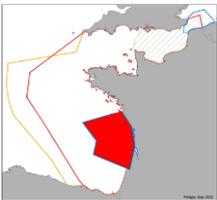


- High-wings aircrafts
- Bubble windows
- Standardized methodology along surveys
- Professional observers
- Multi-target protocol\* : several taxa + human activities

\*Lambert *et al*, 2019  
<https://doi.org/10.6084/m9.figshare.c.4638350>

# Workflow

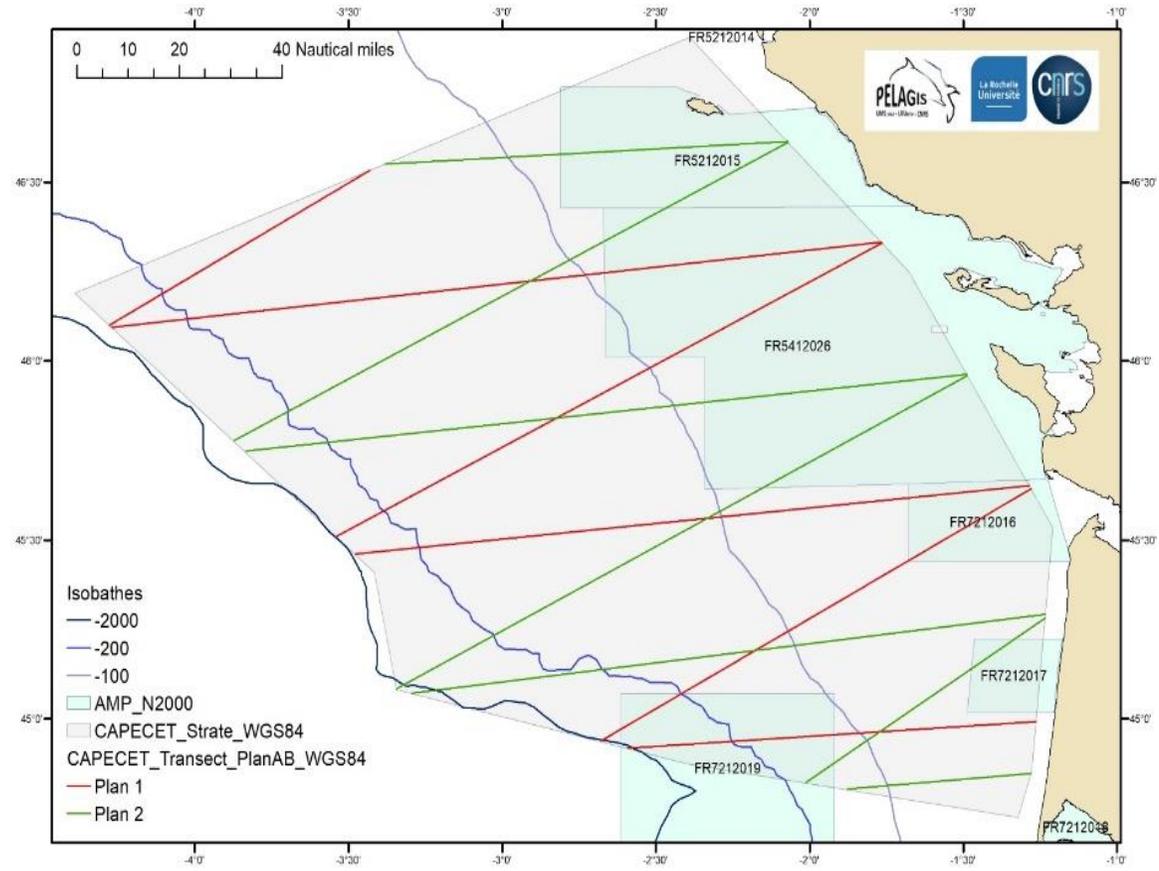




# Survey design

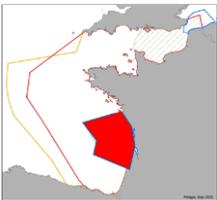


- Jan-Mar 2020
- Jan-Mar 2023
- ... *Jan-Mar 2024*

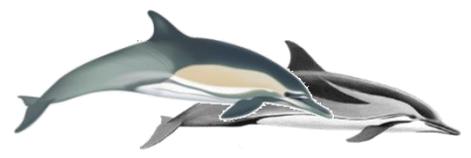


- Study area= 35 000 km<sup>2</sup>
- 1700 km / session
- 6 sessions in winter 2023



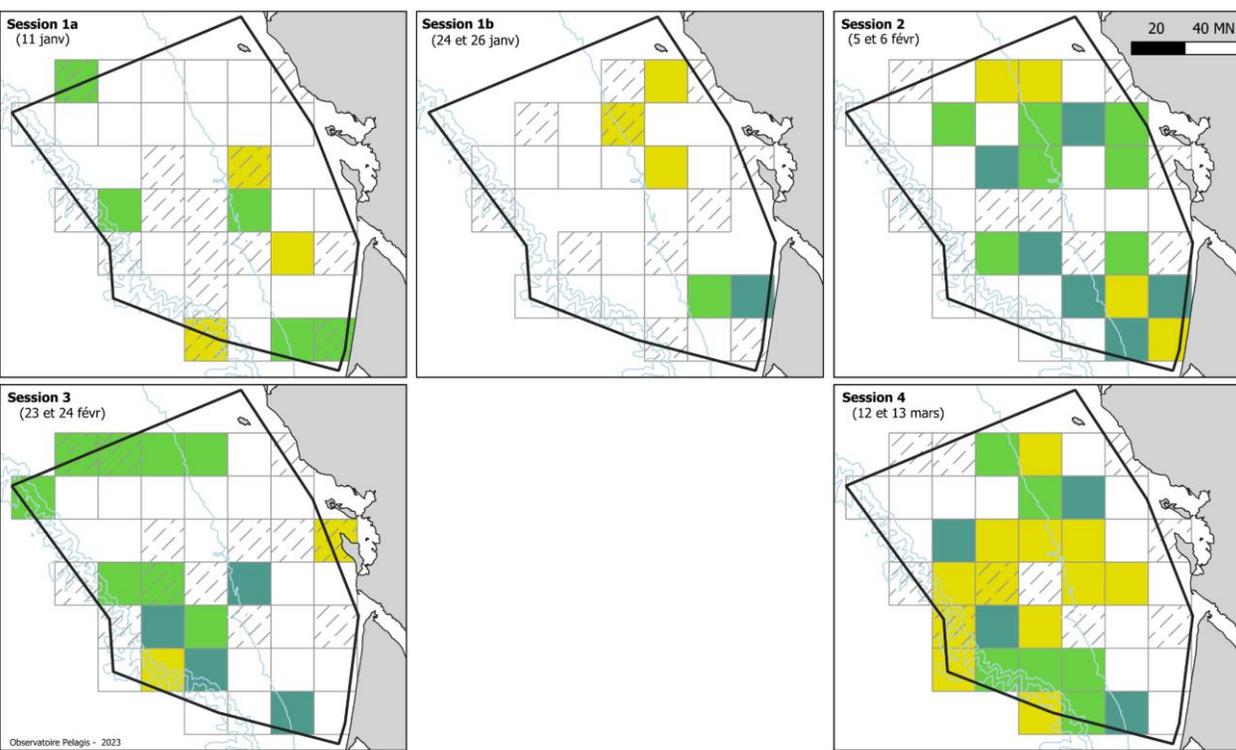


# Encounter rates

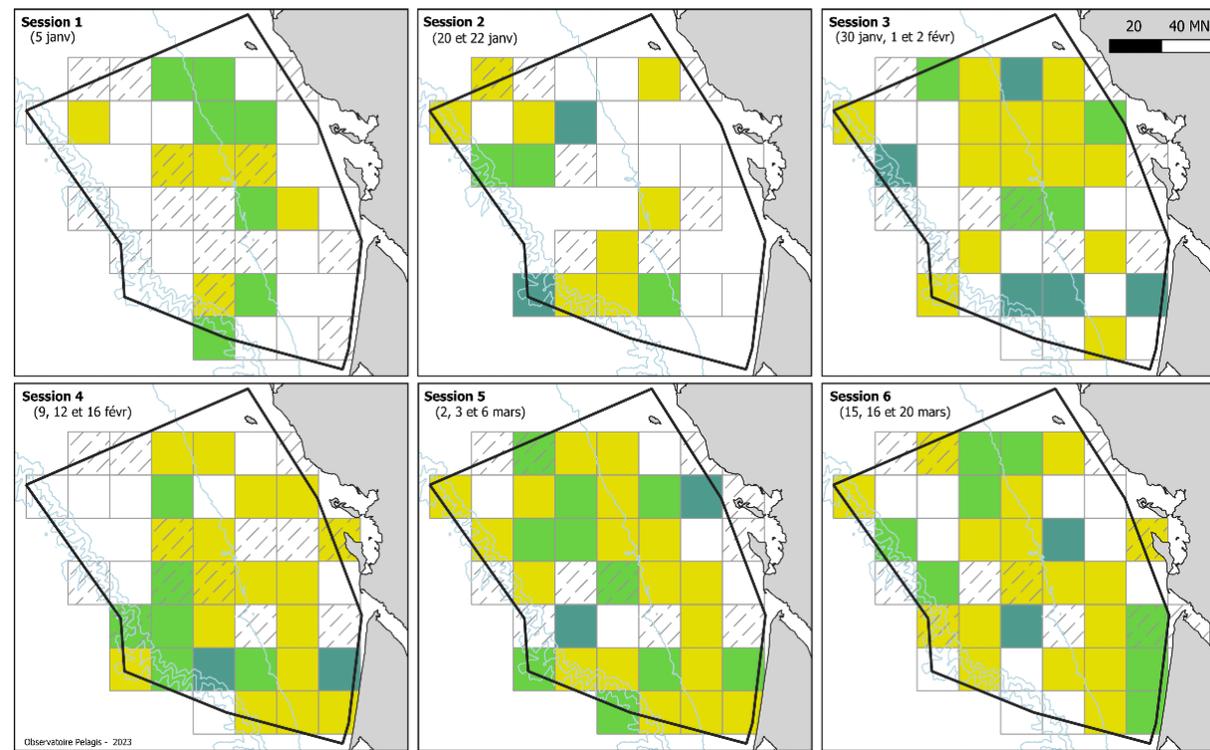


Common dolphin  
+ unidentified striped/common dolphins

## CAPECET 2020

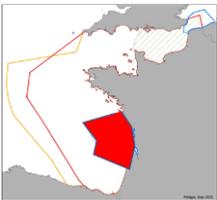


## CAPECET 2023



0 
  0 - 0,01 
  0,01 - 0,025 
  0,025 - 0,05 
  >0,05 
  effort < 30 km

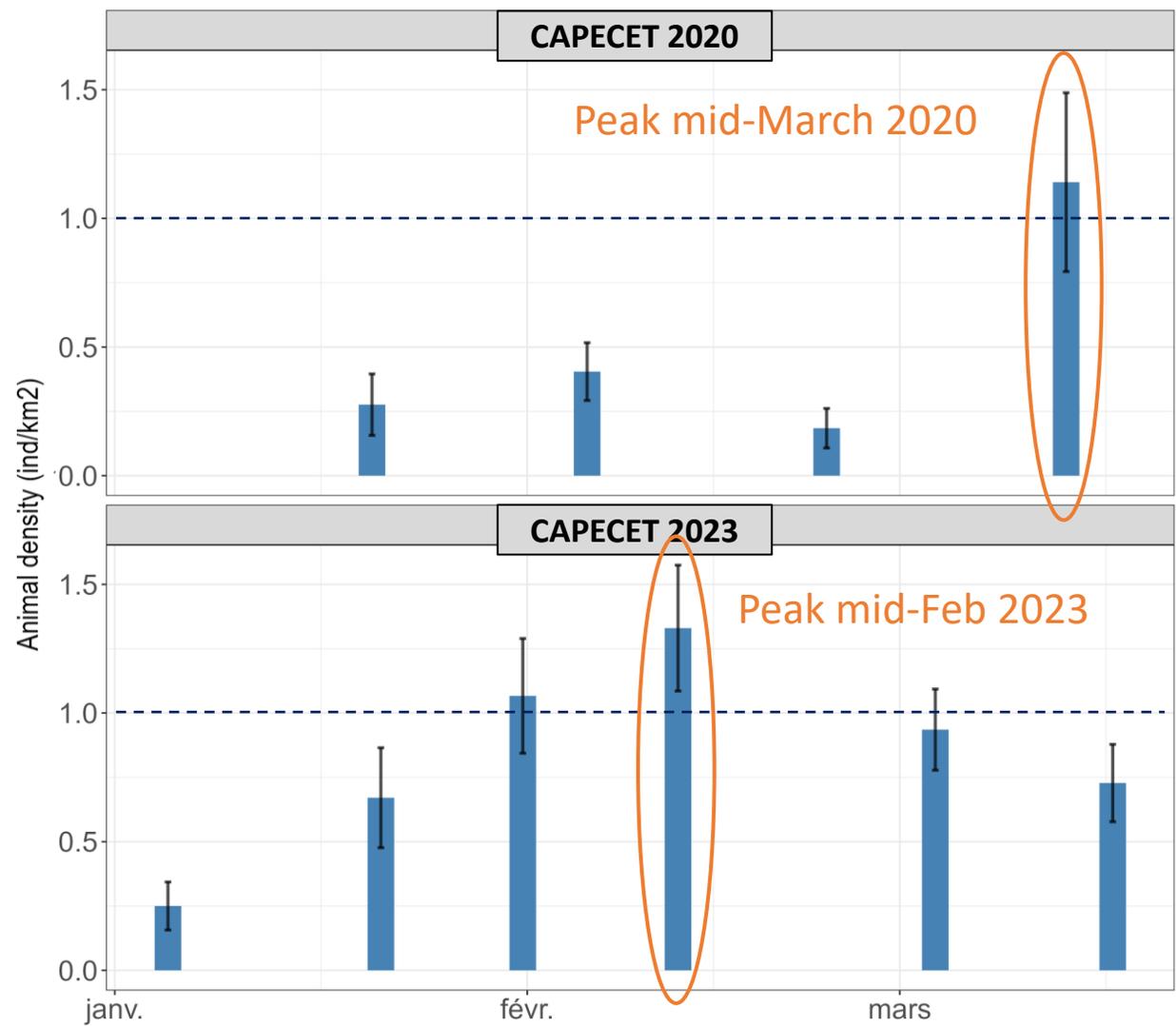
Encounter rate on 30x30 Km (sightings / Km)



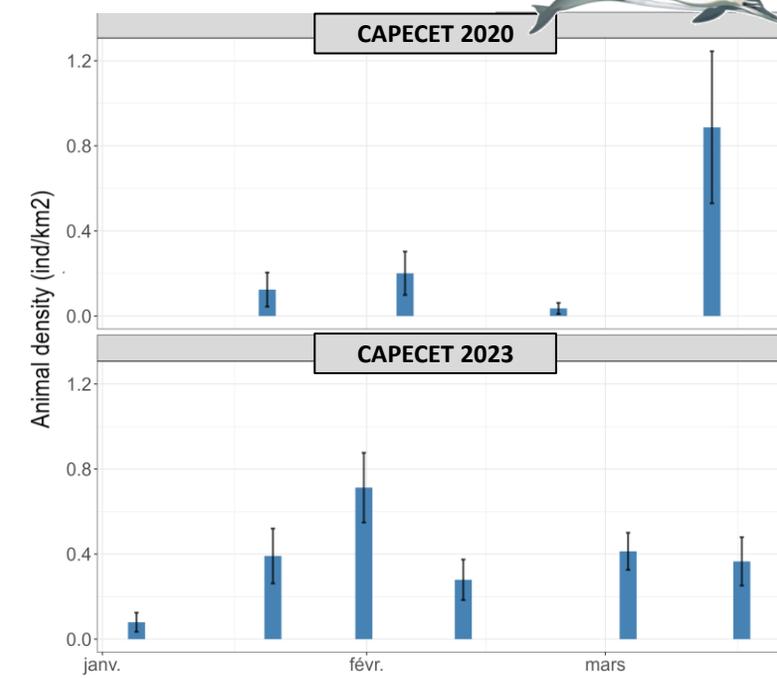
# Density



Common dolphin  
+ unidentified striped/common dolphins

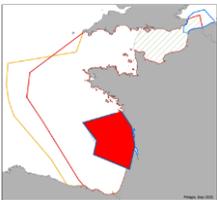


## Common dolphins only



From digital system STORMM\* Common dolphins represent 93% of individuals over the shelf of the Bay of Biscay

- Higher densities in winter 2023 than in 2020
- Peak earlier in 2023 (mid February)



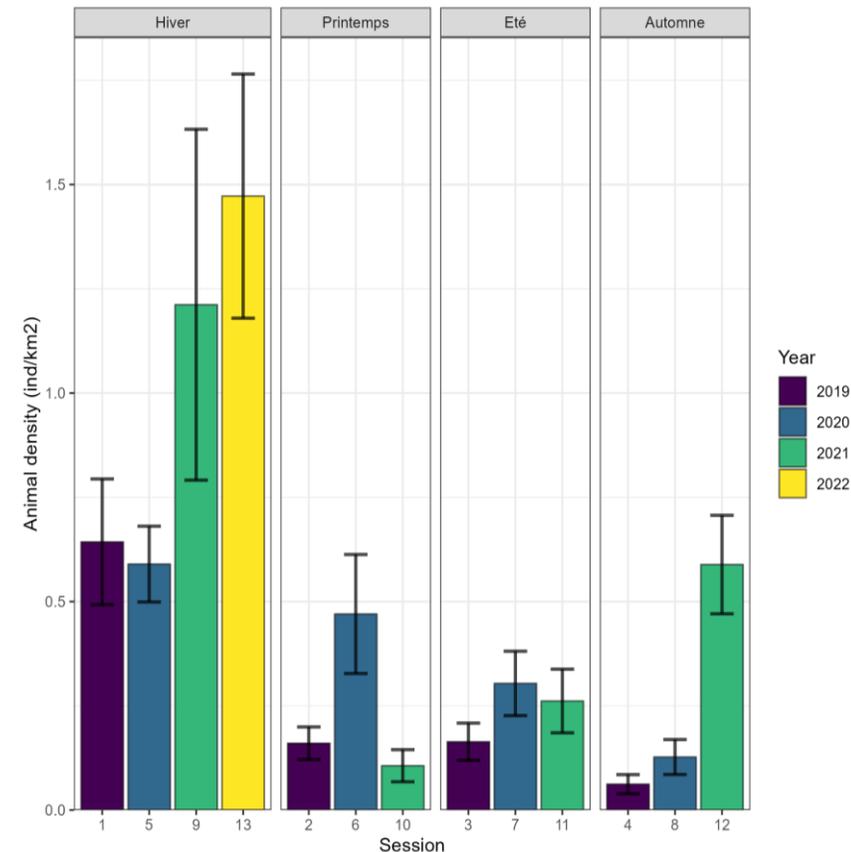
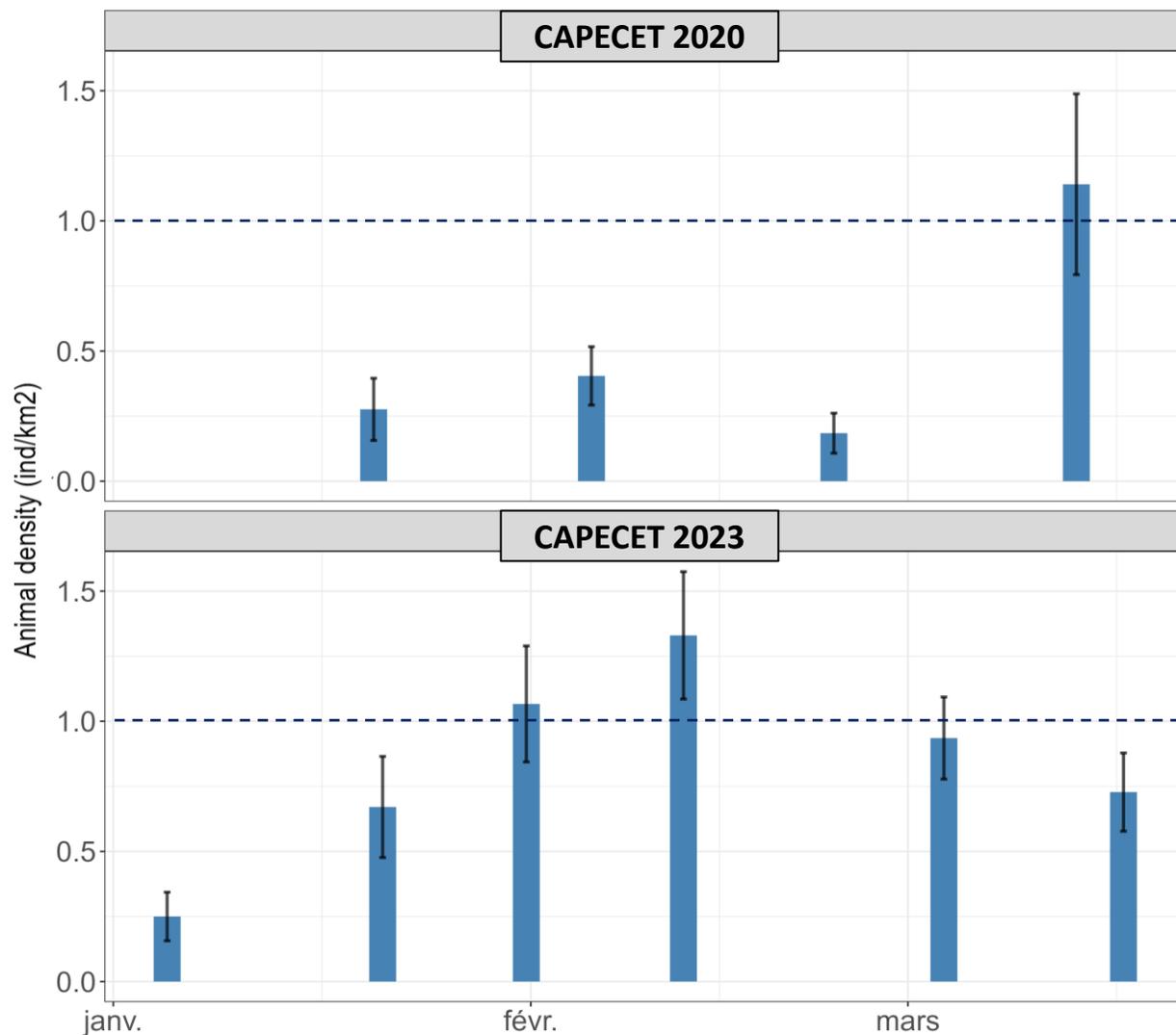
# Density



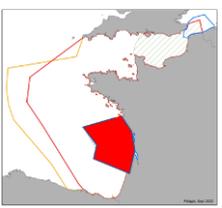
Common dolphin  
+ unidentified striped/common dolphins



## SPEE surveys (2019-2022)

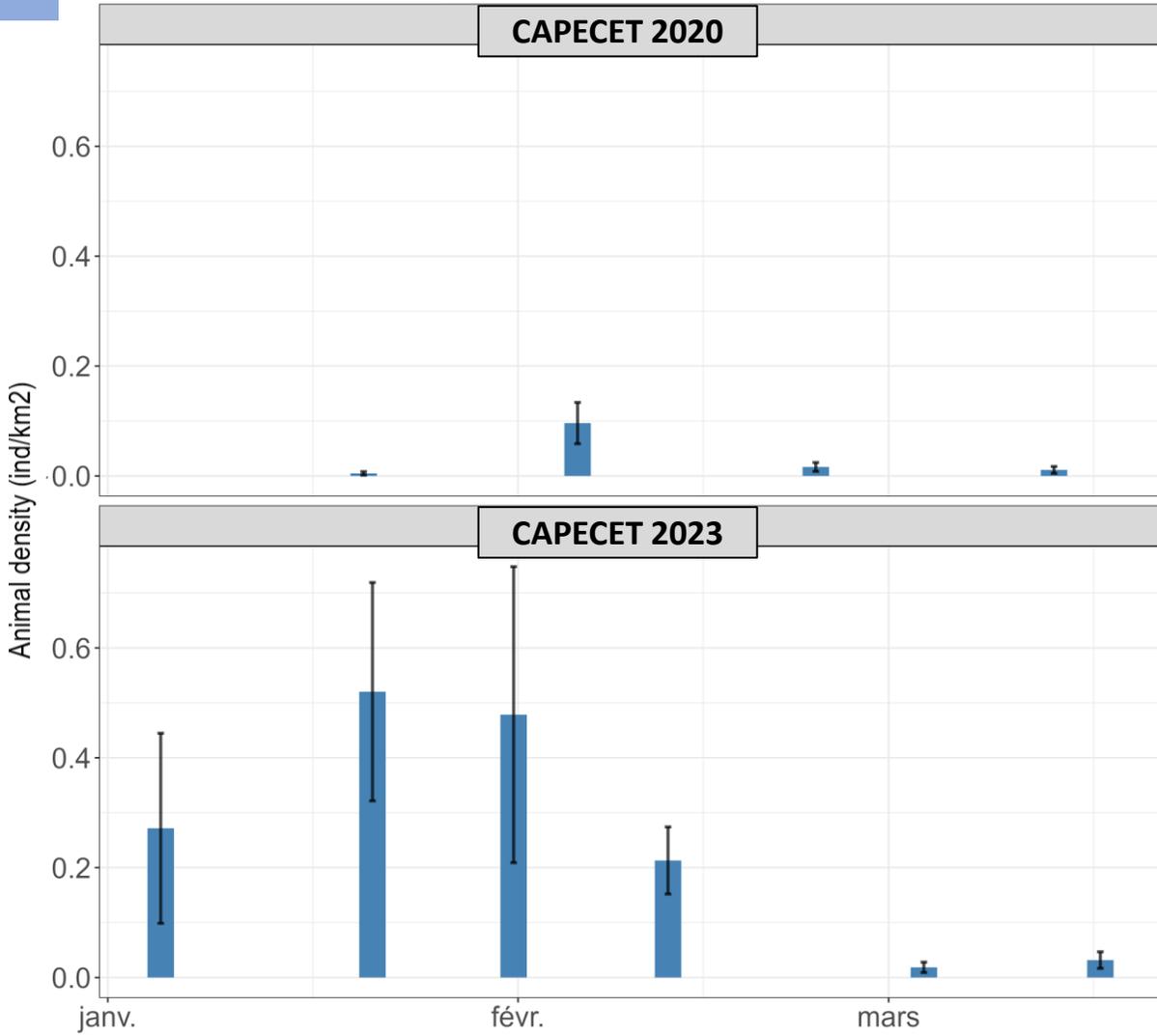


Same order of magnitude than  
2021-2022 for smaller area.



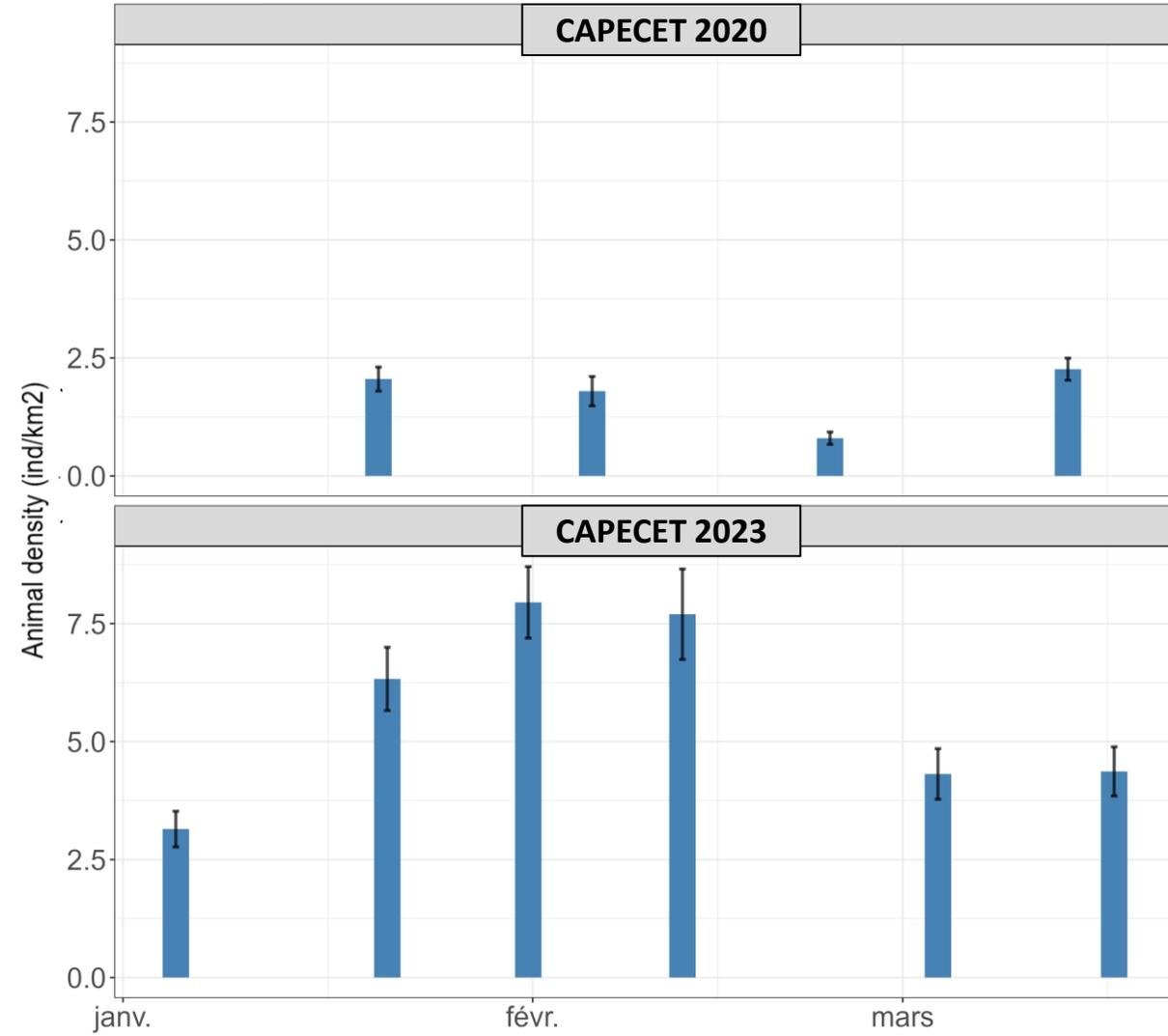
# Density

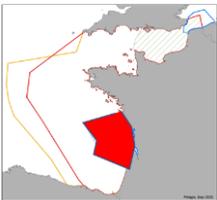
## Harbour porpoise



Higher densities in 2023  
for other species too

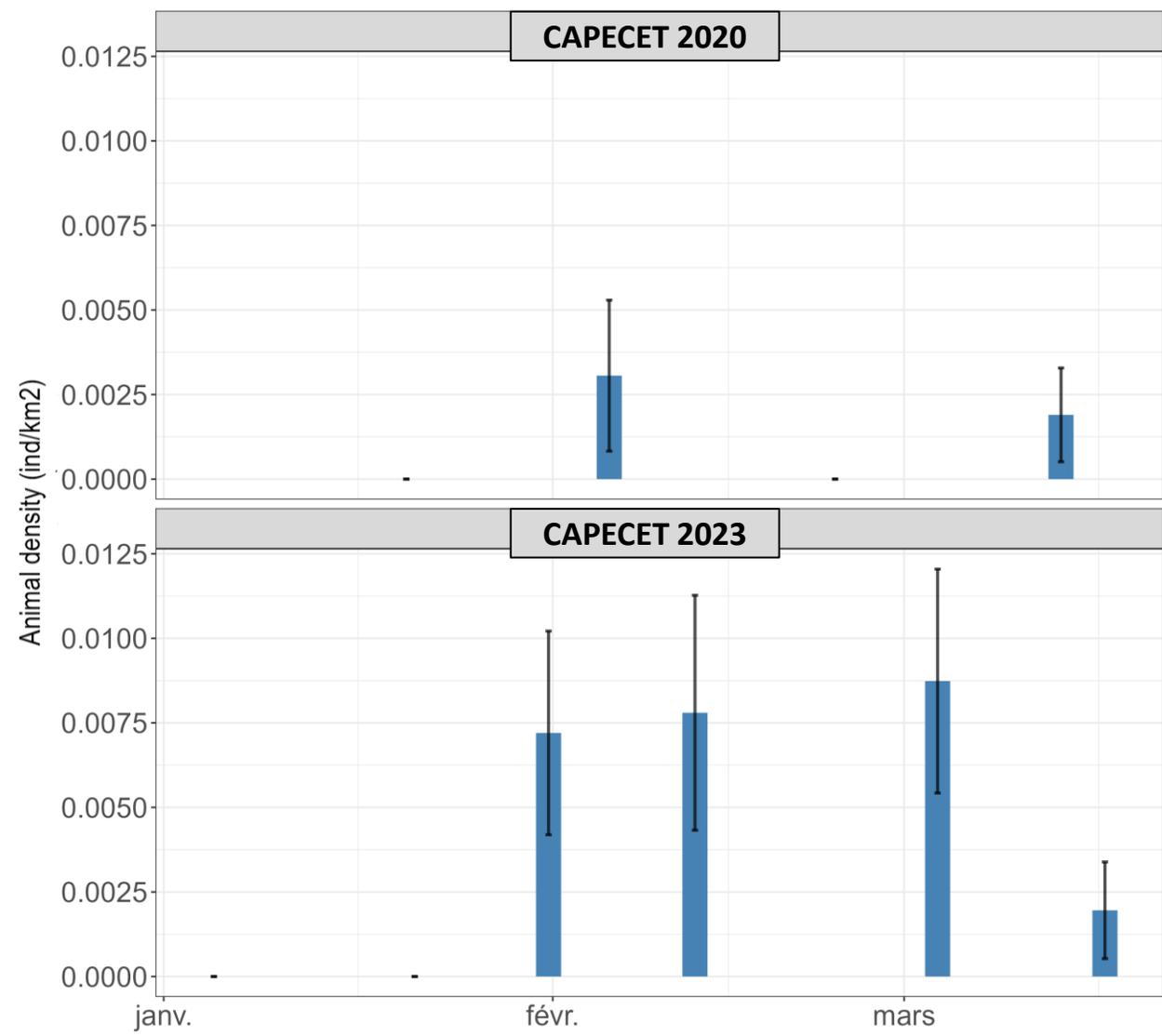
## Alcidae



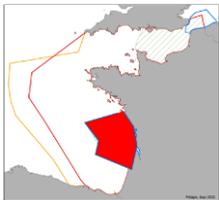


# Density

## Dead dolphins /porpoises



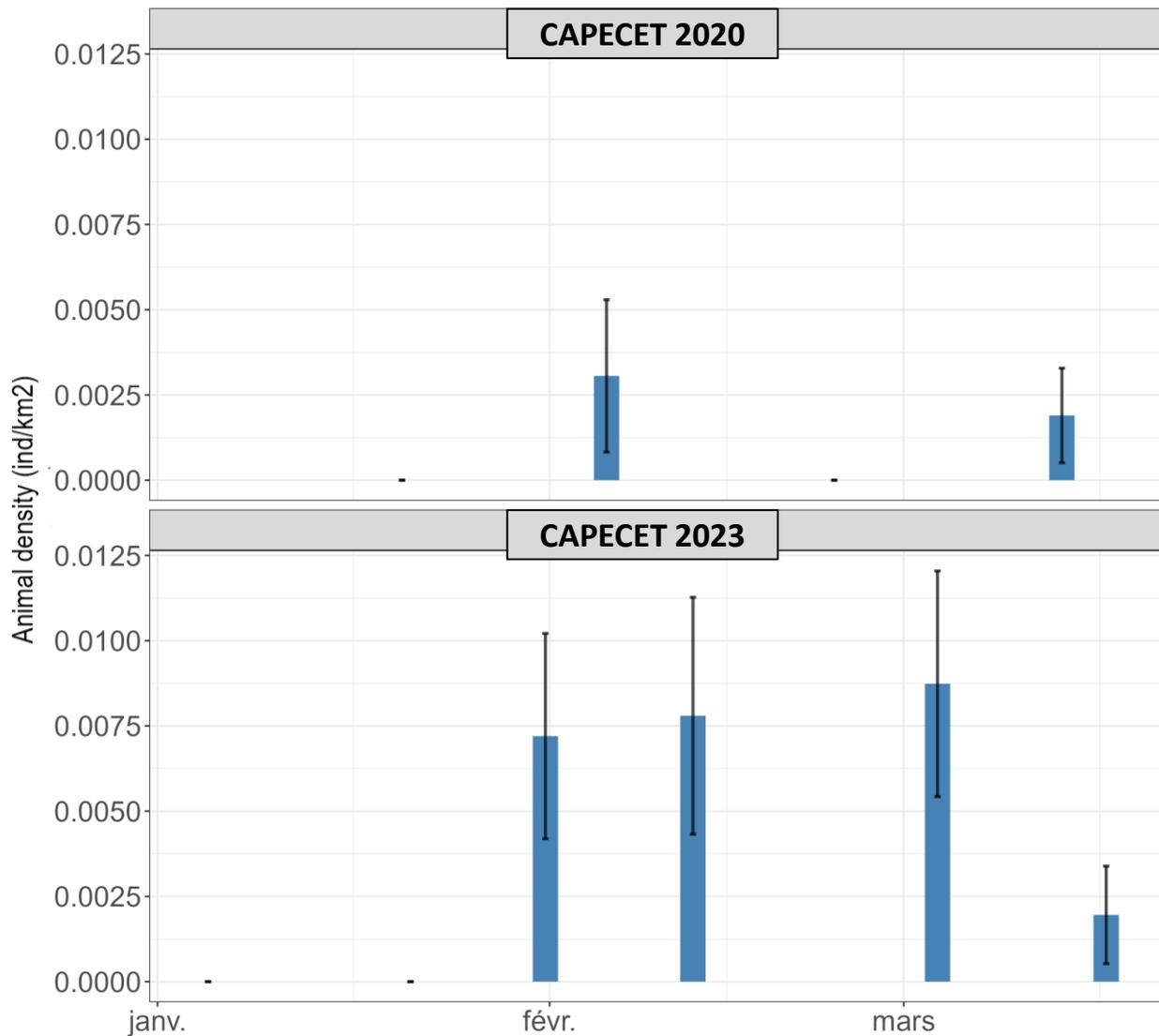
High densities of dead dolphins, also in 2023



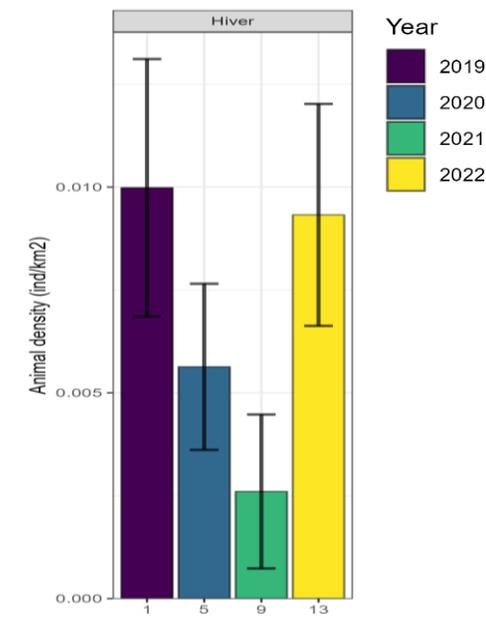
# Density



## Dead dolphins /porpoises



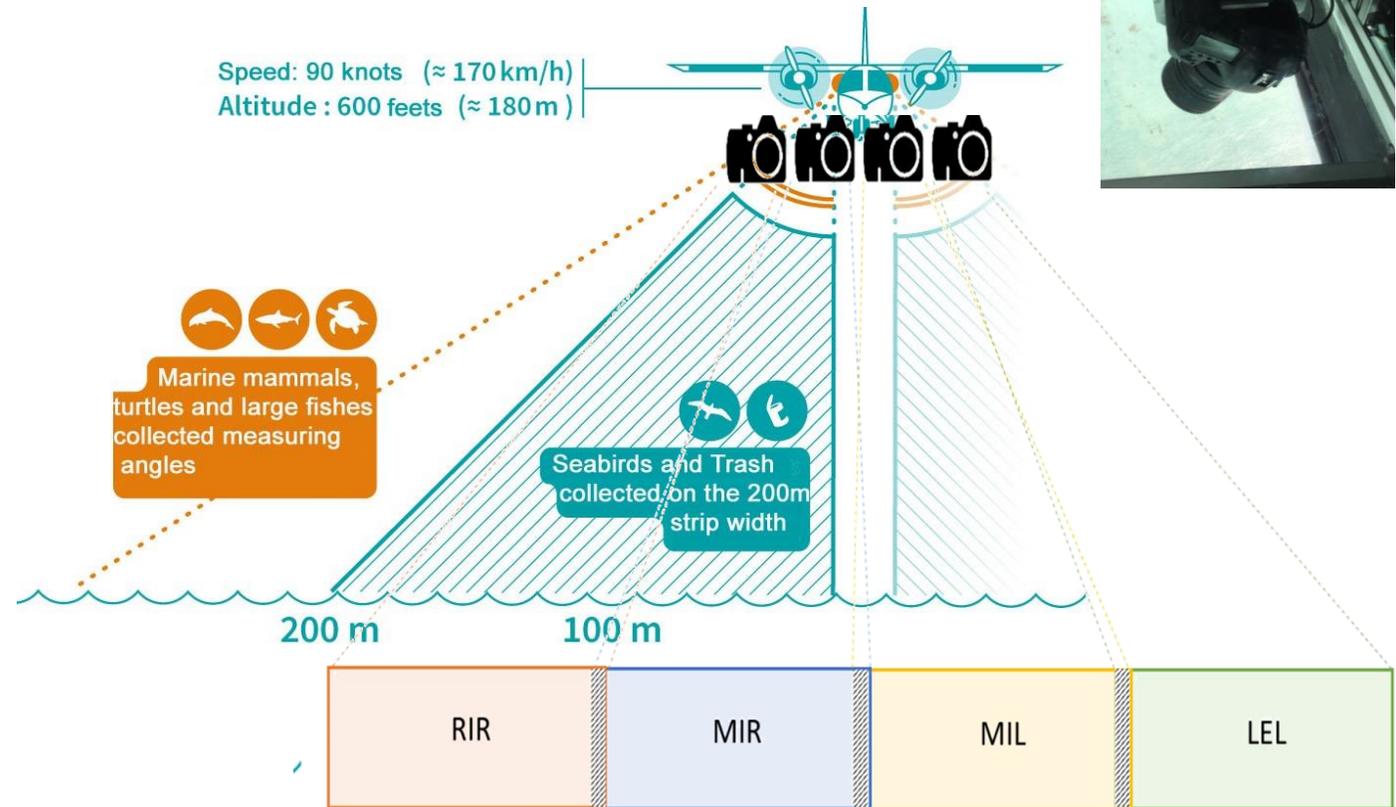
## SPEG surveys (2019-2022)



Again same order of magnitude than 2019 and 2022 for smaller area (SPEG)

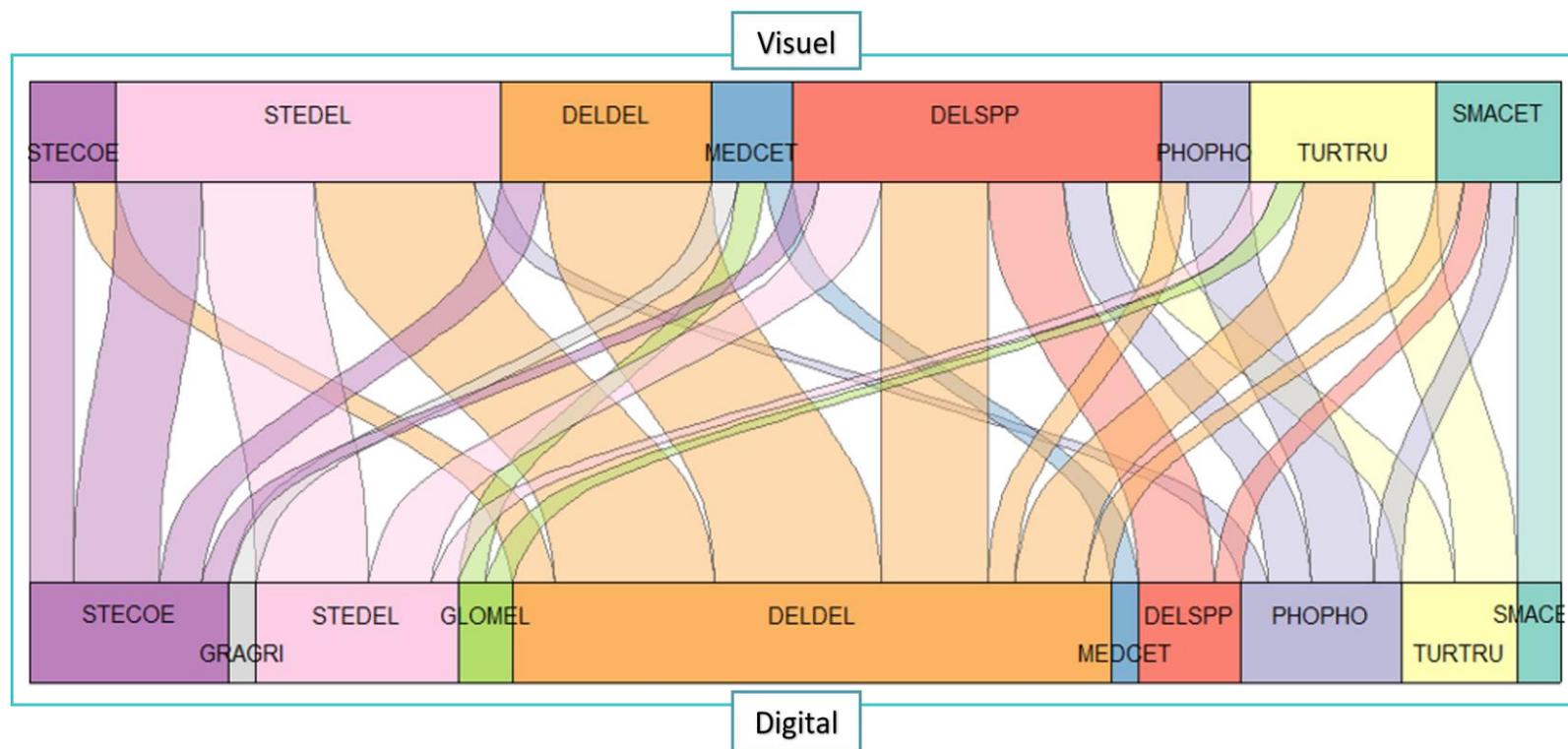
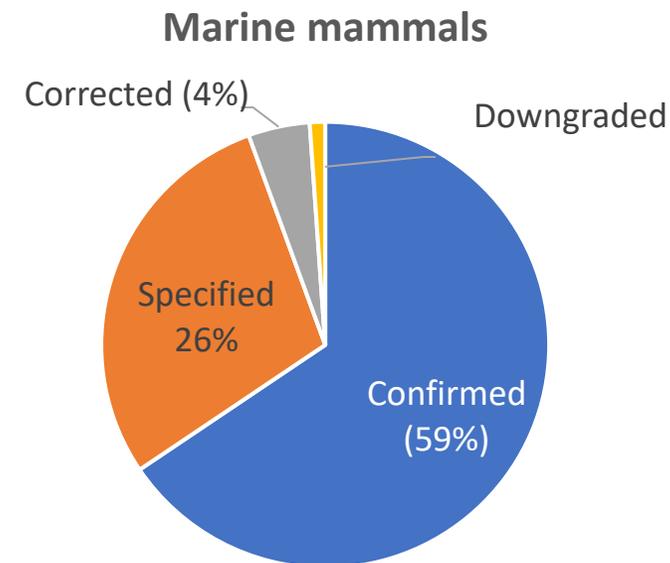
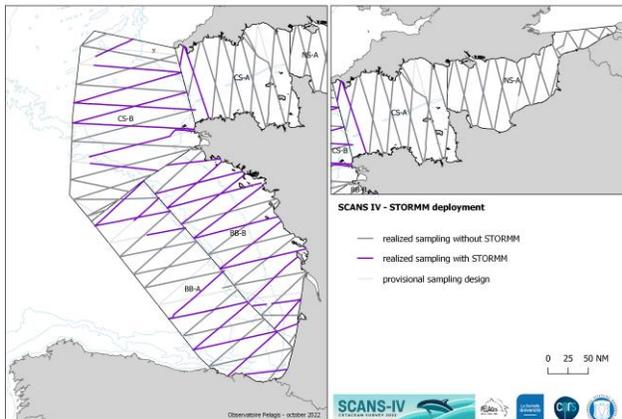
# STORMMM

Digital acquisition to support of visual observation



# STORMM

Digital acquisition to support of visual observation



258 visual sightings of marine mammals match with digital acquisition



# Reports

Reports of SAMM, SPEE, MAMO and CAPECET soon available on :

<https://www.observatoire-pelagis.cnrs.fr/pelagis-2/les-programmes/>

Signaler un échouage

La Rochelle, France

05.46.44.99.10 (7 jours/7)



ACCUEIL

PELAGIS ▾

ÉCHOUAGES ▾

SUIVIS EN MER ▾

ACTUALITÉS



SEARCH



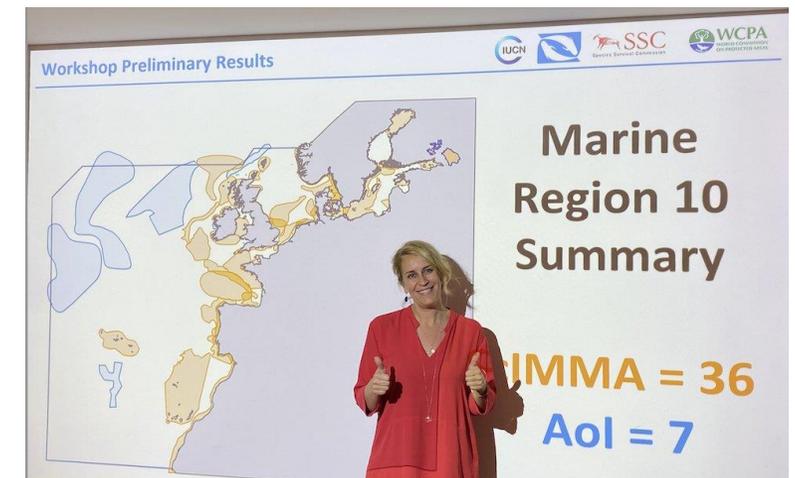
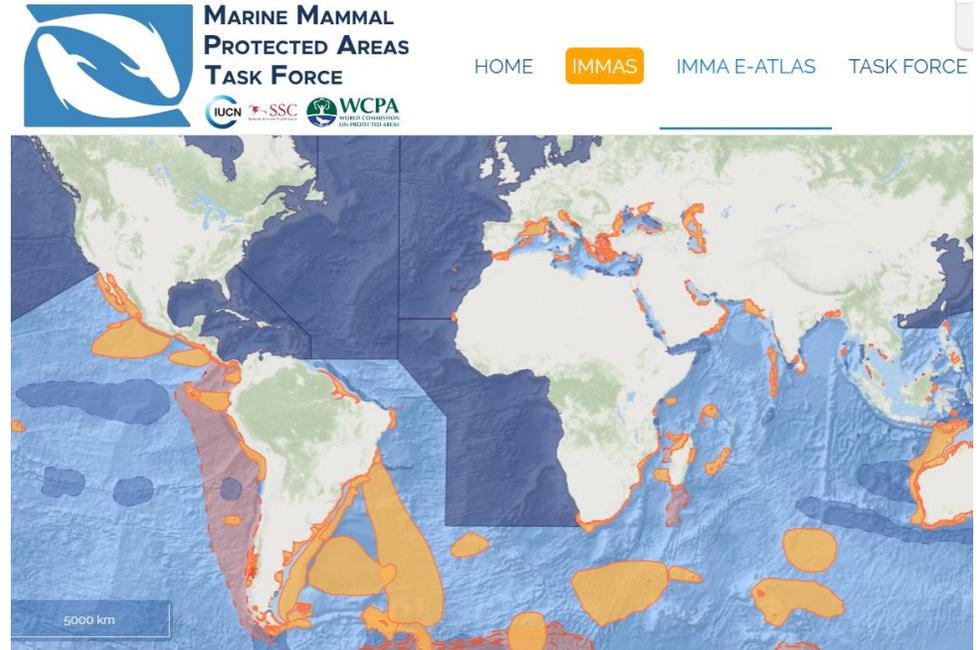
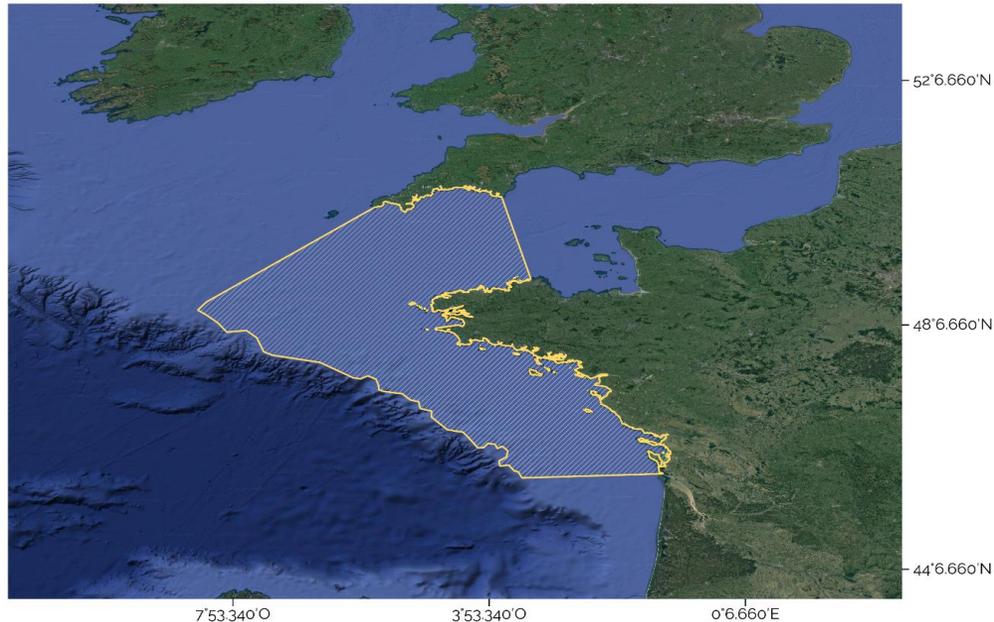
## Les programmes



# IMMA - IMPORTANT MARINE MAMMAL AREAS

<https://www.marinemammalhabitat.org/immas/>

- **Northern continental shelf of the Bay of Biscay candidate IMMA**
- Submitted for common dolphins and harbour porpoise winter aggregations





Thank you for  
your attention !

