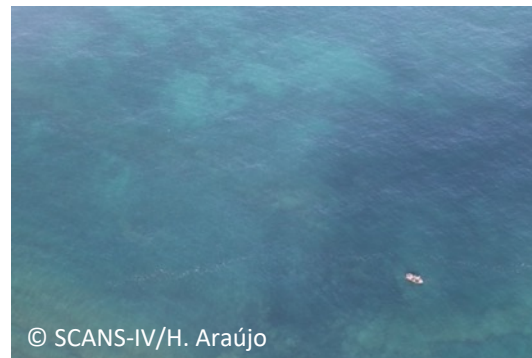


SCANS-IV

Small Cetaceans in European Atlantic
waters and the North Sea 2022



*ASCOBANS Common Dolphin Group
Presentation by **Anita Gilles**¹
Coordinator SCANS-IV
15 Nov 2022*



¹University of Veterinary Medicine Hannover (TiHo), Germany

Context

SCANS-IV is the fourth SCANS survey (1994, 2005/2007, 2016). It is covering shelf and offshore waters of the European Atlantic.

The main objectives are:

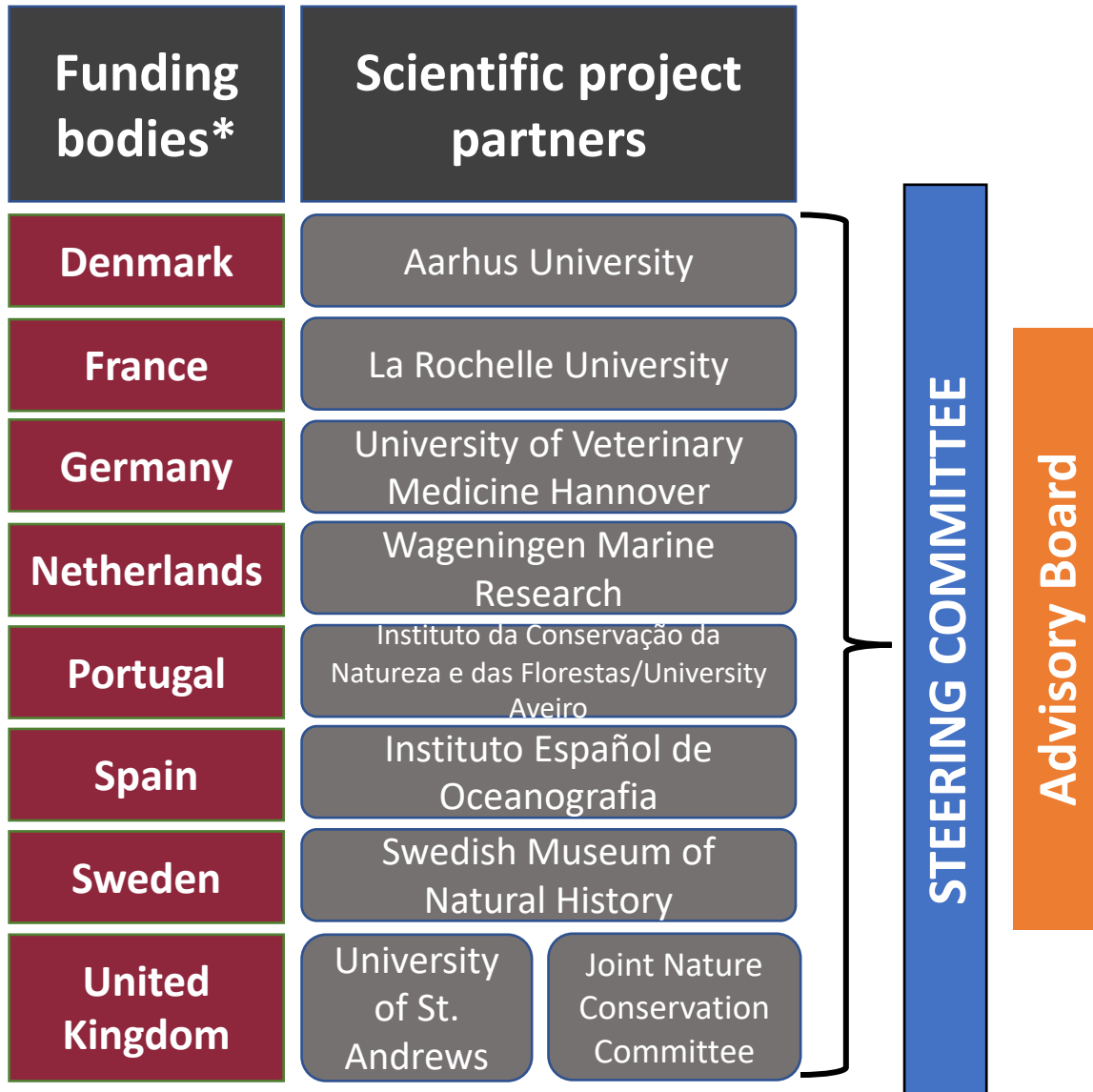
Abundance estimates and trend assessment of the regularly occurring cetacean species by population-wide surveys

Provide outputs for Member States to report under the **Marine Strategy Framework Directive** (Article 8: due 2024), the **Habitats Directive** (Article 17: 2019 - 2024) and for **OSPAR/HELCOM** assessments.

Provide outputs for **impact assessments** of offshore industries and fisheries.

Development of a **governance framework** for future SCANS surveys conducted in 6-year cycles to ensure long-term implementation.

Project structure



*can be several agencies per country



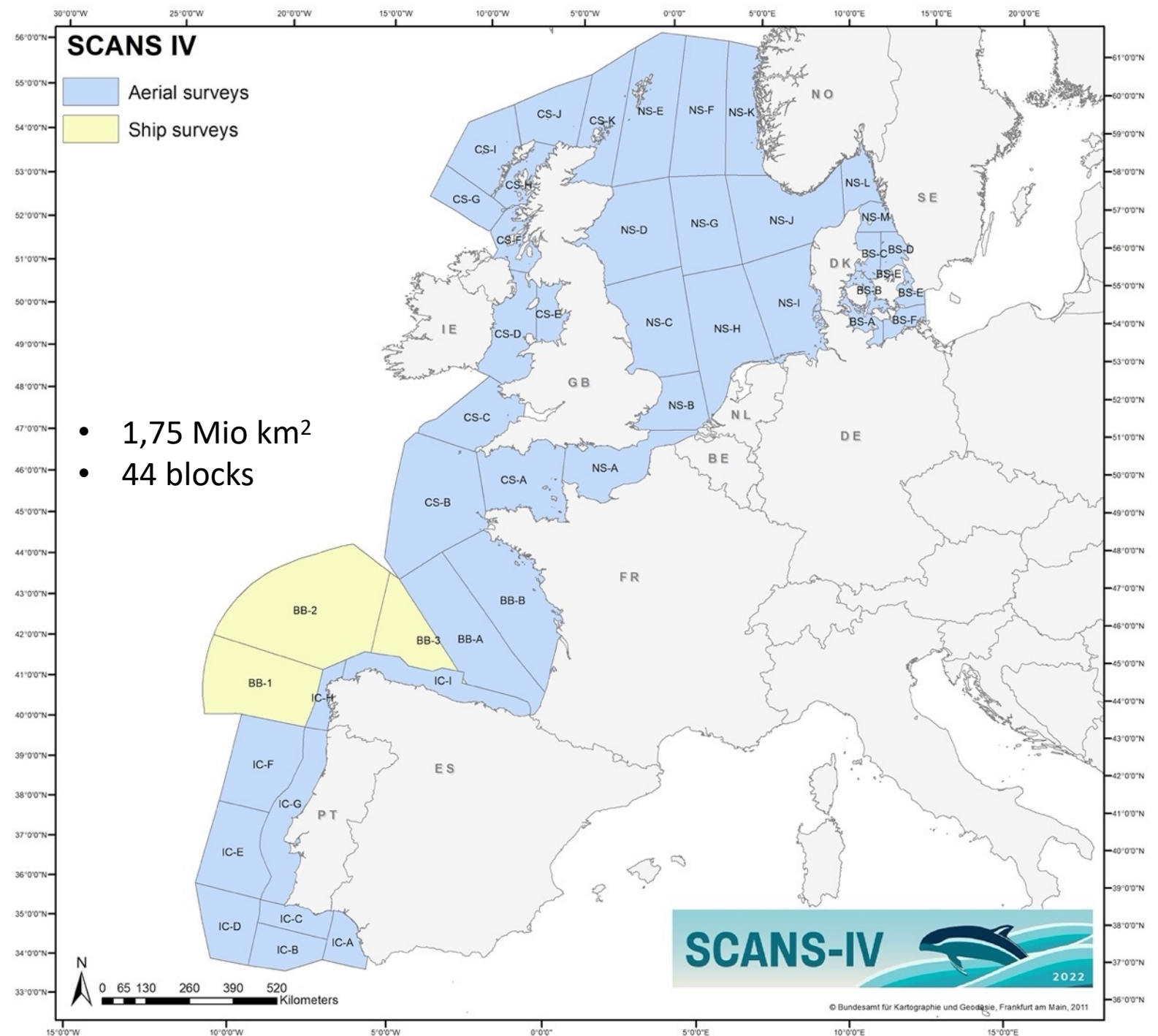
Survey area

Aerial surveys

- 8 planes (all P68s and 1 BN)
- Using regional (existing) survey teams where available

Shipboard survey(s)

- 1 vessel in 2022 (Ramón Margalef)
- Covering primarily offshore waters



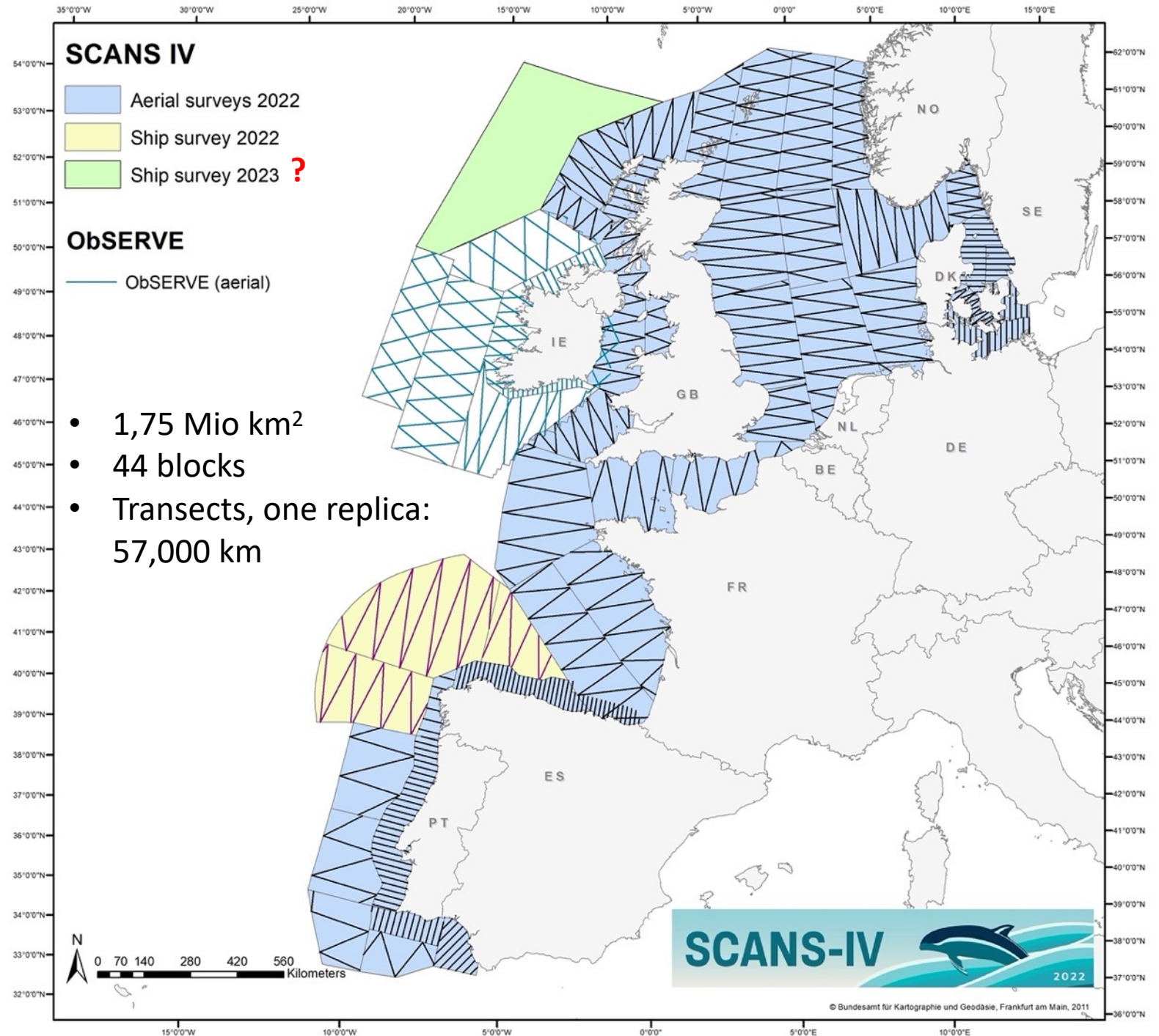
Survey area

Aerial surveys

- 8 planes (all P68s and 1 BN)
- Using regional (existing) survey teams where available

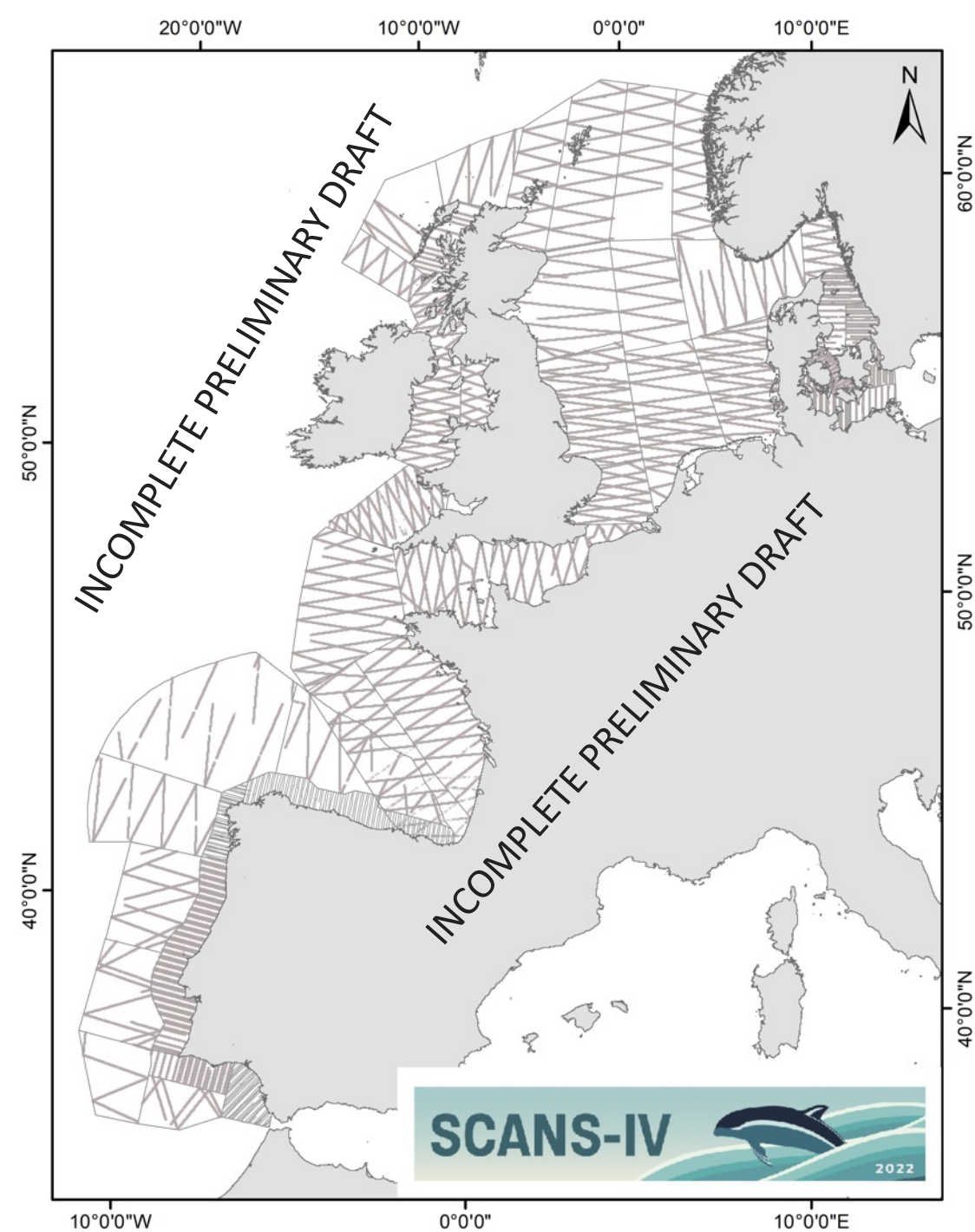
Shipboard survey(s)

- 1 vessel in 2022 (Ramón Margalef)
- Covering primarily offshore waters



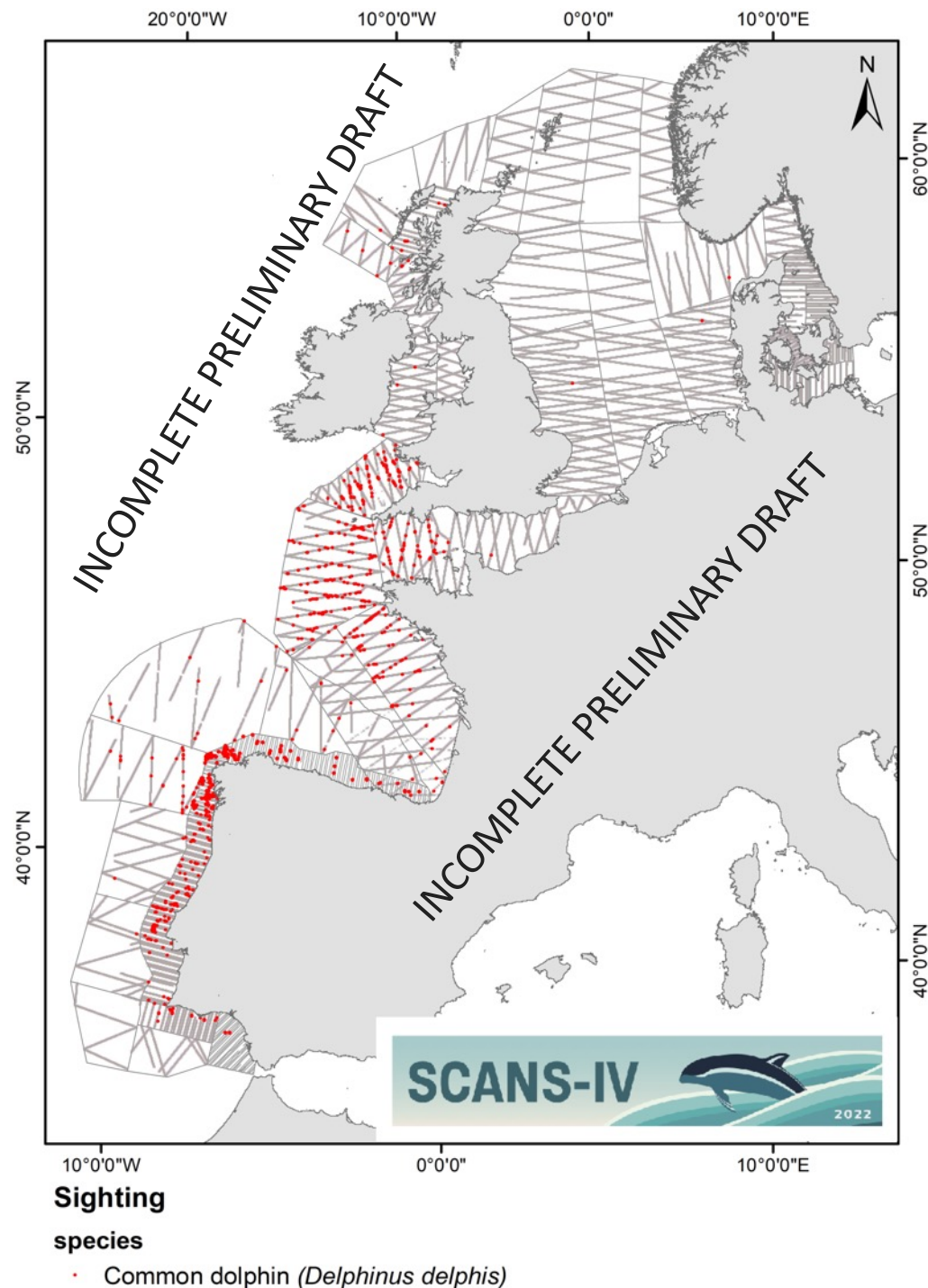
Realised effort

- 28.06. - 15.08.2022
- 2nd attempt NW Scotland: 07.-12.09.2022
- Spanish aerial survey in 07.09.- 22.10.2022



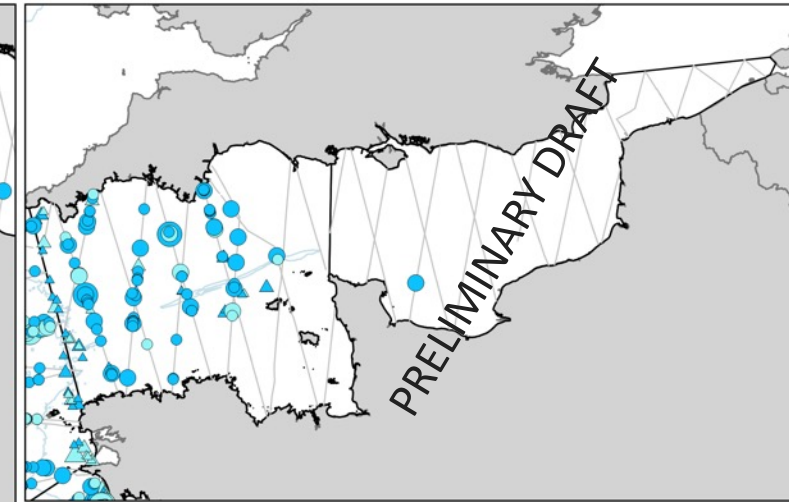
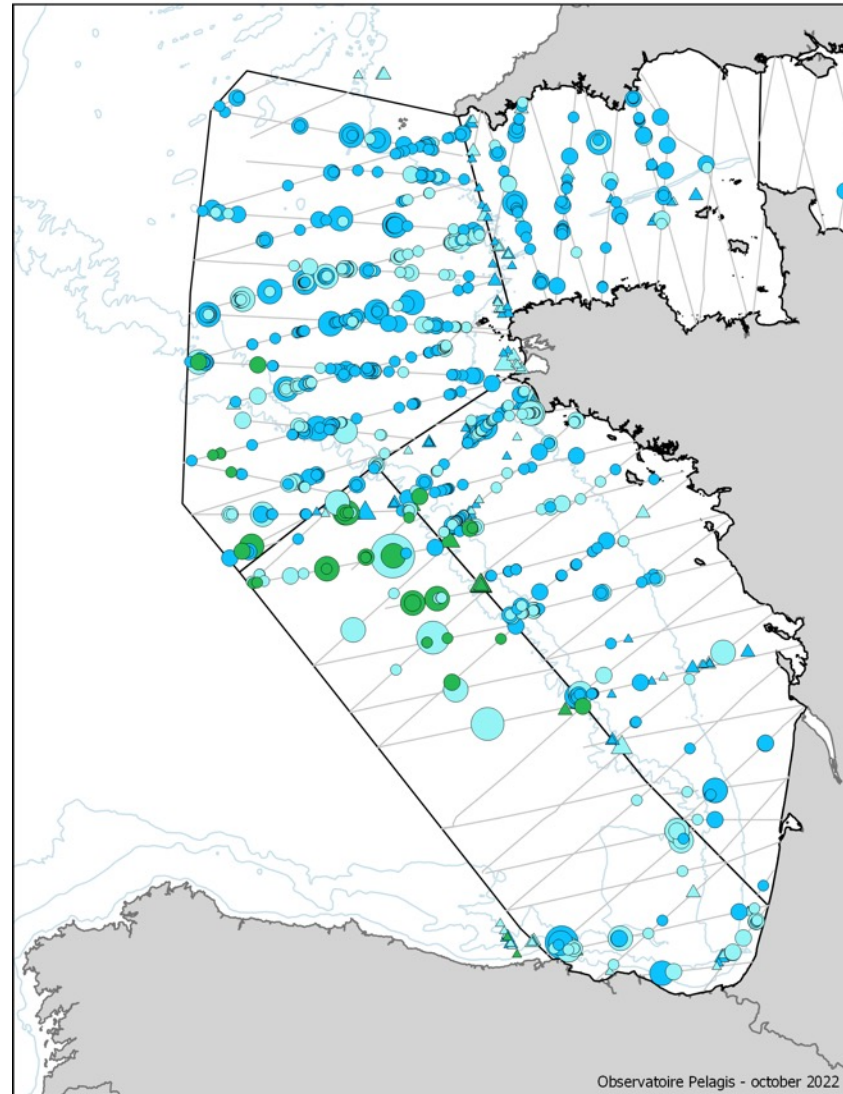
DRAFT Map common dolphin

Note: this is a first incomplete preliminary overview.
Data validation is ongoing.
DO NOT use without consent of coordinator
anita.gilles@tiho-hannover.de



Small delphinid sightings (French teams)

- Only one common dolphin sighting in northern channel
- Common dolphin sightings mostly on the shelf
- Striped dolphins offshore
- Large pods especially offshore



SCANS IV - Small delphinid sightings

circle : on effort / triangle : off effort

Delphinus / Stenella

Delphinus delphis

Stenella coeruleoalba

- 1 to 5 individuals
- 6 to 15 individuals
- 16 to 50 individuals
- 51 to 100 individuals
- > 100 individuals

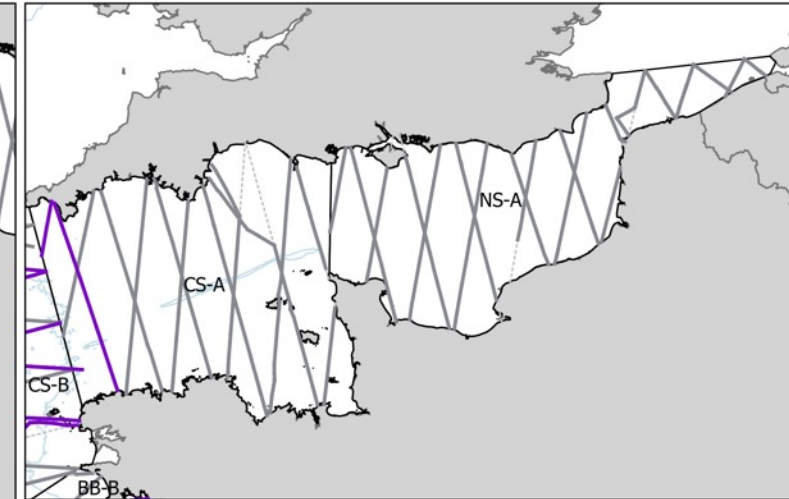
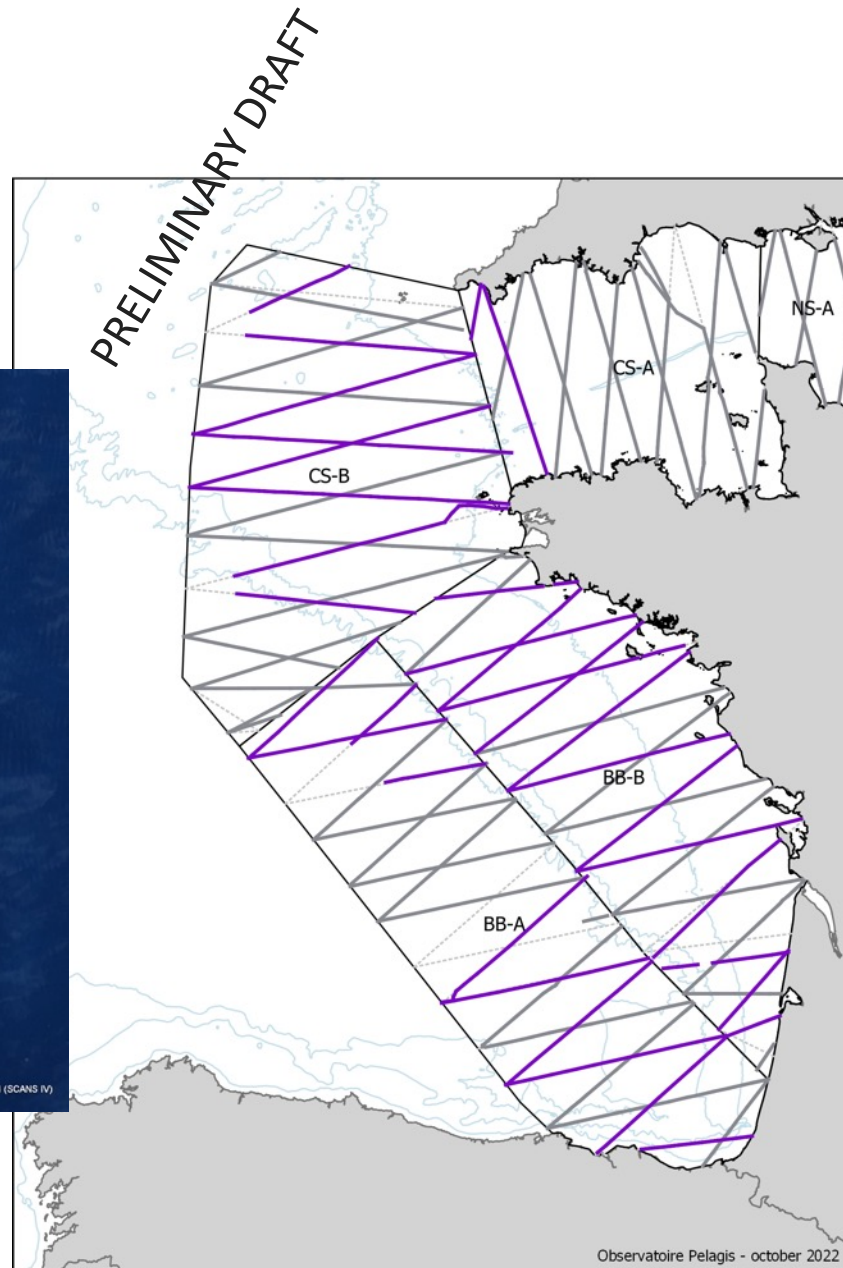
PRELIMINARY DRAFT

0 25 50 NM

- Sightings of unidentified common or striped dolphins will be further analysed with STORMM data



Pelagis / HyTech - STORMM (SCANS IV)



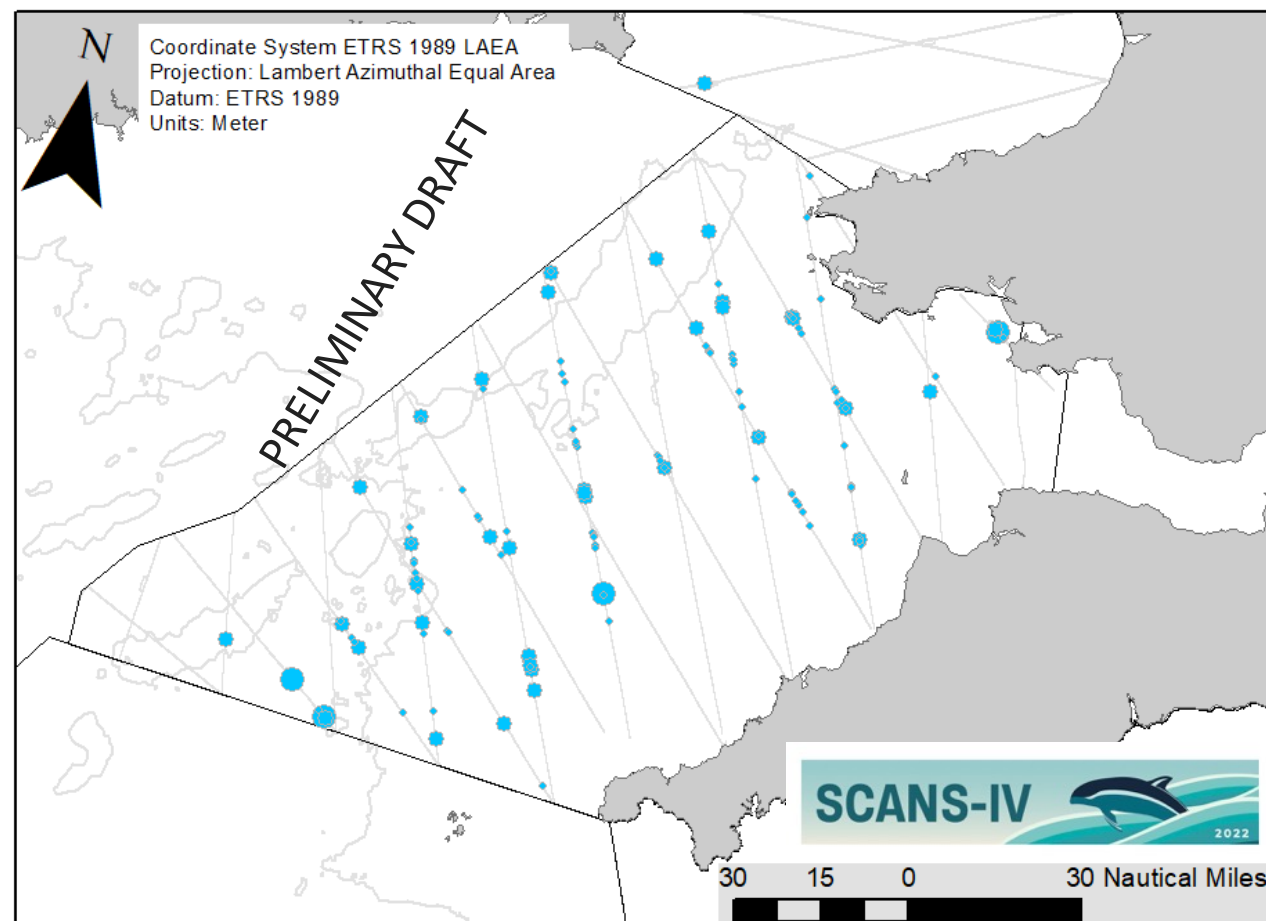
SCANS IV - STORMM deployment

- realized sampling without STORMM
- realized sampling with STORMM
- - - provisional sampling design

PRELIMINARY DRAFT

0 25 50 NM

Small delphinid sightings (southern Celtic Sea)



SCANS IV - Small delphinid sightings

circle : on effort / triangle : off effort

Delphinus delphis

- 1 to 5 individuals
- 6 to 15 individuals
- 16 to 50 individuals
- 51 to 100 individuals
- > 100 individuals

And much more to come



© SCANS-IV/H. Araújo

~ 20 cetacean species

Pinnipeds

Turtles

Sharks

Sunfish

Tuna

Anthropo activities

... and, unfortunately, about 800 flocks of dead seabirds
(bird flu summer 2022)

Next steps



**Dissemination
of progress and
results in
relevant fora**

Project coordination

Time line

Survey preparation

Q1 2022

Survey area and transect
design

Q2 2022

Aerial
surveys

Ship
surveys

Q3 2022

Data validation

Q4 2022

Abundance estimates and
trend analyses for MSFD

Q1 2023

Q2 2023

Model-based estimates of
abundance and drivers of
distribution

Q3 2023

Q4 2023

Development future
governance framework
SCANS surveys

Q1 2024

Q2 2024

Final report

Q3 2024



AARHUS
UNIVERSITY

DCE - DANISH CENTRE FOR ENVIRONMENT AND ENERGY



universidade
de aveiro



University of
St Andrews

Thank you dream teams!!



Follow the SCANS-IV ArcGIS story map

<https://storymaps.arcgis.com/stories/6435641aed5745d1b2471e5e59e6af94>

In French waters

<https://storymaps.arcgis.com/stories/90250af8d1ff48be9a8a40ec63a8476c>

And follow us on twitter

@scans_4

More questions? please contact Anita Gilles

anita.gilles@tiho-hannover.de

<https://www.tiho-hannover.de/en/clinics-institutes/institutes/institute-for-terrestrial-and-aquatic-wildlife-research-itaw/scans-iv-survey>

SCANS-IV

Small Cetaceans in European Atlantic waters and the North Sea 2022

SCANS is a large-scale ship-based and aerial survey designed to study the distribution and abundance of cetaceans in the northeast Atlantic. The survey is conducted during summer, surveying along predetermined transects for whales, dolphins and porpoises. SCANS-IV built on the previous surveys conducted in 1994, 2005/2007 and 2016.

