PhD PROJECT

COMMON DOLPHIN POPULATION DYNAMICS
WITHIN FRENCH ATLANTIC WATERS

Etienne Rouby under the supervision of Matthieu Authier and Vincent Ridoux

PROJECT WORKING LANES

POPULATION DYNAMICS

1

Develop a novel methodology
Constitute a new dataset
Obtain vital rates

INTERACTIONS

2

Link oceanography and mortality
Quantify byctach risk and intensity

CONSERVATION

3

Project population viability
Define parameters for PBR

TAKE HOME MESSAGES

POPULATION DYNAMICS

- Develop a **new recognized method** to **easily estimate survivorship** for **sparse data species**, taking **covariates** into account
- Estimate **age at sexual maturity, calving interval** and **reproductive rates**
- Build **North East Atlantic** common dolphin **life tables**
- Assess the **population viability** and **project its long-term trajectory** according to **different scenarii**

INTERACTIONS

- Use the **on-board observer dataset** (OBSMER) to **estimate credible** and **informative Bycatch risk** and **intensity values** considering its biases
- Characterize the **byctach signal** at a **fine spatio-temporal scale**

CHALLENGES TO INCENTIVISING AVOIDANCE OF UNWANTED CATCH

30 August 2021

- Increase knowledge to better manage spatiotemporal fisheries trends
- Use dataset from fishery observers
- Help managers and policy makers

From Kraak S., Pascoe S., Pol M., Maravelias C. and Kraan M.

THANK YOU
FOR YOUR INTEREST IN THIS WORK