

INTERACTION ASSESSMENT BETWEEN DOLPHINS, WHALES AND SEABIRDS WITH FISHERIES

Date _____ Harbour _____ Vessel _____ Inquiry n° _____

This questionnaire pretends to understand some aspects about your work, the fishing activity in Portugal and the possible interactions of dolphins, whales, seabirds and others animals with fisheries. All information is regarding to the past **3 months**. (*should only be answered by the captain of the vessel; *points the priority questions*)

All information will be processed confidentially.

***1. Which fishing gear are you using?** (*Fill one questionnaire by gear/métier, in case the fisherman operates different gears complete one questionnaire for each gear*)

- | | | |
|--|--|--|
| <p>a. Gillnets</p> <p><input type="checkbox"/> <i>single gillnet</i></p> <p><input type="checkbox"/> <i>set gillnet</i></p> <p><input type="checkbox"/> <i>drift gillnet</i></p> <p><input type="checkbox"/> <i>trammel net</i></p> | <p><input type="checkbox"/> <i>surface</i></p> <p><input type="checkbox"/> <i>midwater</i></p> <p><input type="checkbox"/> <i>bottom</i></p> <p><input type="checkbox"/> _____</p> | <p><input type="checkbox"/> b. Trawl</p> <p><input type="checkbox"/> c. Purse seine</p> <p><input type="checkbox"/> d. Bottom/Demersal longline</p> <p><input type="checkbox"/> e. Drifting longline</p> <p><input type="checkbox"/> f. Traps</p> <p><input type="checkbox"/> g. Pots</p> <p>h. Beach seine</p> |
|--|--|--|

***2. How many days your fishing gear has been in the water for the last 3 months?** _____

***3. Characterization of the fishing gear:**

	N° of nets: _____	Height (cm): _____	Length (m): _____
Gillnets	Filament (mono/poly): _____	Colour: _____	Thickness (mm): _____
Trawling nets	N° of sets/day: _____	Net length (m): _____	
Purse seine nets			
Beach seine			
Longline	N° of hooks: _____	Mainline length (m): _____	
Traps/pots	N° of traps/pots: _____		

***4. What is the length (m) of the vessel?** _____

***5. Please, use the attached map to point your fishing area.**

Grid reference(s) - _____

***6. What species do you catch?**

- | | | | |
|---|---|---|------------------------------------|
| <input type="checkbox"/> Atlantic chub mackerel | <input type="checkbox"/> European seabass | <input type="checkbox"/> Octopus | <input type="checkbox"/> Whiting |
| <input type="checkbox"/> Atlantic horse mackerel | <input type="checkbox"/> European squid | <input type="checkbox"/> Pouting | <input type="checkbox"/> Wreckfish |
| <input type="checkbox"/> Atlantic mackerel | <input type="checkbox"/> Flying squid | <input type="checkbox"/> Ray | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Blue whiting | <input type="checkbox"/> Forkbeard | <input type="checkbox"/> Red porgy | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Catshark | <input type="checkbox"/> Gilthead seabream | <input type="checkbox"/> Sardine | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Common cuttlefish | <input type="checkbox"/> Grey mullet | <input type="checkbox"/> Scabbardfish | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Common sole | <input type="checkbox"/> John dory | <input type="checkbox"/> Seabream | <input type="checkbox"/> _____ |
| <input type="checkbox"/> European hake | <input type="checkbox"/> Large-scaled gurnard | <input type="checkbox"/> Sharks | <input type="checkbox"/> _____ |
| <input type="checkbox"/> European plaice/
flounder | <input type="checkbox"/> Megrin | <input type="checkbox"/> Striped red mullet | <input type="checkbox"/> _____ |

***7. Seabirds often get entangled in your fishing gear?**

- Yes No Don't know -> if the answer is no/don't know, go to question 10

***8. Which seabird species were caught by your fishing gear?** Don't know

Please detail the number of seabirds caught during the last 3 months:

- | | |
|--|--|
| <input type="checkbox"/> Common scoter – n° of individuals _____ | <input type="checkbox"/> Sandwich tern – n° of individuals _____ |
| <input type="checkbox"/> Cory's shearwater – n° of individuals _____ | <input type="checkbox"/> Shearwaters – n° of individuals _____ |
| <input type="checkbox"/> Great Cormorant – n° of individuals _____ | <input type="checkbox"/> Storm-petrels – n° of individuals _____ |
| <input type="checkbox"/> Great skua – n° of individuals _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Guillemot/Razorbill – n° of individuals _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Gulls – n° of individuals _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Northern gannet – n° of individuals _____ | <input type="checkbox"/> _____ |

***9. Were seabirds released from your fishing gear dead or alive?**

- % alive _____ % dead _____ Don't know

10. Dolphins/whales often get entangled in your fishing gear?

- Yes No Don't know -> if the answer is no/don't know, go to question 13

11. Which marine mammal species were caught by your fishing gear? Don't know

Please detail the number of marine mammals caught during the last 3 months:

- | | |
|---|---|
| <input type="checkbox"/> Bottlenose dolphin – n° of individuals _____ | <input type="checkbox"/> Harbour porpoise – n° of individuals _____ |
| <input type="checkbox"/> Common dolphin – n° of individuals _____ | <input type="checkbox"/> Risso's dolphin – n° of individuals _____ |

- | | |
|---|--|
| <input type="checkbox"/> Common whale – n° of individuals _____ | <input type="checkbox"/> Spermwhale – n° of individuals _____ |
| <input type="checkbox"/> Dolphin/whale no ident. – n° of individuals ____ | <input type="checkbox"/> Striped dolphin – n° of individuals _____ |
| <input type="checkbox"/> Minke whale– n° of individuals _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Orca – n° of individuals _____ | <input type="checkbox"/> _____ |
| <input type="checkbox"/> Pilot whale – n° of individuals _____ | <input type="checkbox"/> _____ |

12. Were marine mammals released from your fishing gear dead or alive?

% alive _____ % dead _____ Don't know

13. Other animals often get entangled in your fishing gear? Don't know No

Please detail the number of other animals caught during the last 3 months:

- | | |
|--|---------------------------------------|
| <input type="checkbox"/> Leatherback turtles – n° of individuals _____ | <input type="checkbox"/> Others _____ |
| <input type="checkbox"/> Loggerhead turtles – n° of individuals _____ | <input type="checkbox"/> _____ |

14. Are you aware of the Good Practices Manual prepared within the scope of the LIFE MarPro project, referring to the fishing gear you use?

- Yes, but I don't have the Manual
 Yes, I have the Manual
 No

Would you like to learn about the Manual? Yes No

***15. Have you implemented any of the measures to reduce bycatch or interactions indicated in the Good Practices Manual in the last 2 years? Which?**

- No
 Yes, for seabirds - _____
 Yes, for marine mammals - _____

16. Have the bycatch/interactions reduction measures used harmed your fishery?

- No
 Yes, there was a reduction in the amount of fish caught
 Yes, disturbed the operability of the fishing gear

***17. In your opinion the bycatch and/or interactions**

- Increased over the last 2 years
 Decreased over the last 2 years
 Remained the same
 Don't know

***18. With the application of measures to reduce bycatch, is it estimated that more or less seabirds were captured?**

- Don't know
 Catches decreased
 Catches were similar

Catches increased

19. With the application of measures to reduce bycatch, is it estimated that more or less marine mammals were captured?

- Don't know
 Catches decreased
 Catches were similar
 Catches increased

20. Where do you usually capture seabirds? Please indicate the grids on the map.

Grid reference(s) - _____

21. Where do you usually capture dolphins/whales? Please indicate the grids on the map.

Grid reference(s) - _____

22. Do dolphins/seabirds eat or damage the catch or gear?

- | Dolphins | Seabirds | |
|--------------------------|--------------------------|------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Don't know |
| <input type="checkbox"/> | <input type="checkbox"/> | Yes |
| <input type="checkbox"/> | <input type="checkbox"/> | No |

23. Can you quantify the damage (in €/year)?

Dolphins - _____

Seabirds - _____

24. Did the measures put in place help to reduce the damage?

- | Dolphins | Seabirds | |
|--------------------------|--------------------------|------------|
| <input type="checkbox"/> | <input type="checkbox"/> | Don't know |
| <input type="checkbox"/> | <input type="checkbox"/> | Yes |
| <input type="checkbox"/> | <input type="checkbox"/> | No |

25. In your perspective do you think dolphins/whales are important for the marine environment?

- Don't know
 Yes
 No

26. In your perspective do you think seabirds are important for the marine environment?

- Don't know
 Yes
 No

***Some personal information....**

Captain name: _____

Age _____

For how long do you work in the fisheries sector? _____

Phone number (in case on board observers and/or logbooks are possible): _____

Confidence level of the answers _____%

Additional comments/notes:

Thank you!