



Universiteit
Leiden
The Netherlands

Pelagic fish and harbour porpoise at North Sea wind farms: acoustic investigation and science communication

Demuynck, J.M.

Citation

Demuynck, J. M. (2026, March 13). *Pelagic fish and harbour porpoise at North Sea wind farms: acoustic investigation and science communication*. Retrieved from <https://hdl.handle.net/1887/4296692>

Version: Publisher's Version

License: [Licence agreement concerning inclusion of doctoral thesis in the Institutional Repository of the University of Leiden](#)

Downloaded from: <https://hdl.handle.net/1887/4296692>

Note: To cite this publication please use the final published version (if applicable).

Pelagic fish and harbour porpoise at North Sea wind farms

Acoustic investigation and science
communication

Fien Demuynck

Demuynck, Jozefien (Fien)

Pelagic fish and harbour porpoise at North Sea wind farms:
acoustic investigation and science communication

PhD thesis, Leiden University, the Netherlands

An electronic version of this thesis can be downloaded from:
openaccess.leidenuniv.nl

Cover: picture by Simon Demuynck, edited by Geert Demuynck
Printed by Proefschrifterij (Uitgeverij Boekscout)

© 2026

Pelagic fish and harbour porpoise at North Sea wind farms:
Acoustic investigation and science communication

Proefschrift

ter verkrijging van

de graad van doctor aan de Universiteit Leiden,
op gezag van rector magnificus prof. dr. S. de Rijcke,
volgens besluit van het college voor promoties
te verdedigen op vrijdag 13 maart 2026

klokke 13.00 uur

door

Jozefien Marijke Demuynck
geboren te Oostende (België)

in 1996

Promotor

Prof. dr. H. W. Slabbekoorn

Co-promotores

Dr. J Hubert

Dr. P. Russo

Promotiecommissie

Prof. dr. A. H. Meijer

Prof. dr. H.P. Spaink

Prof. dr. I. Smeets

Prof. dr. D. Botteldoorn (Ghent University)

Dr. F. Visser (Koninklijk Nederlands Instituut voor Onderzoek der Zee - NIOZ)

CHAPTER 1	7
General introduction	
CHAPTER 2	33
Response triggering potential of pulse train variants in pelagic fish: a behavioural test using wild-caught herring	
CHAPTER 3	57
Response persistence to repeated sound exposure during a tank study in pelagic fish	
CHAPTER 4	71
An experimental sound exposure study at sea: no spatial deterrence of free-ranging pelagic fish	
CHAPTER 5	95
Less pelagic fish and more harbour porpoise inside than outside offshore wind farms in the Belgian-Dutch North Sea	
CHAPTER 6	131
Did you know fish can hear too? Signage test to reduce visitor sound levels in a public aquarium	
CHAPTER 7	161
General discussion	
Nederlandse samenvatting	
‘West-Vloamsche soamenvattinge’	
Curriculum vitae	
Publications	