

# Are near-distance seal scarer effects as strong as the effects of offshore piling noise on harbour porpoises (*Phocoena phocoena*)?

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# Settings

- Data:
  - Construction of 5 wind farms in the German Bight
  - 302 noise mitigated piling events between 2014-2016
  - deterrence with seal scarer
- Spatial resolution:
  - 750 m PTS-protection, noise limit **160 dB re 1 $\mu$ PA SEL<sub>05</sub>**
  - **1500 m** TTS-protection
- Temporal resolution:
  - „before“, „deterrence“, „piling“ and „after“ phase
- Analysis:
  - GLMM including variation by wind farm and temporal autocorrelation of porpoise detections

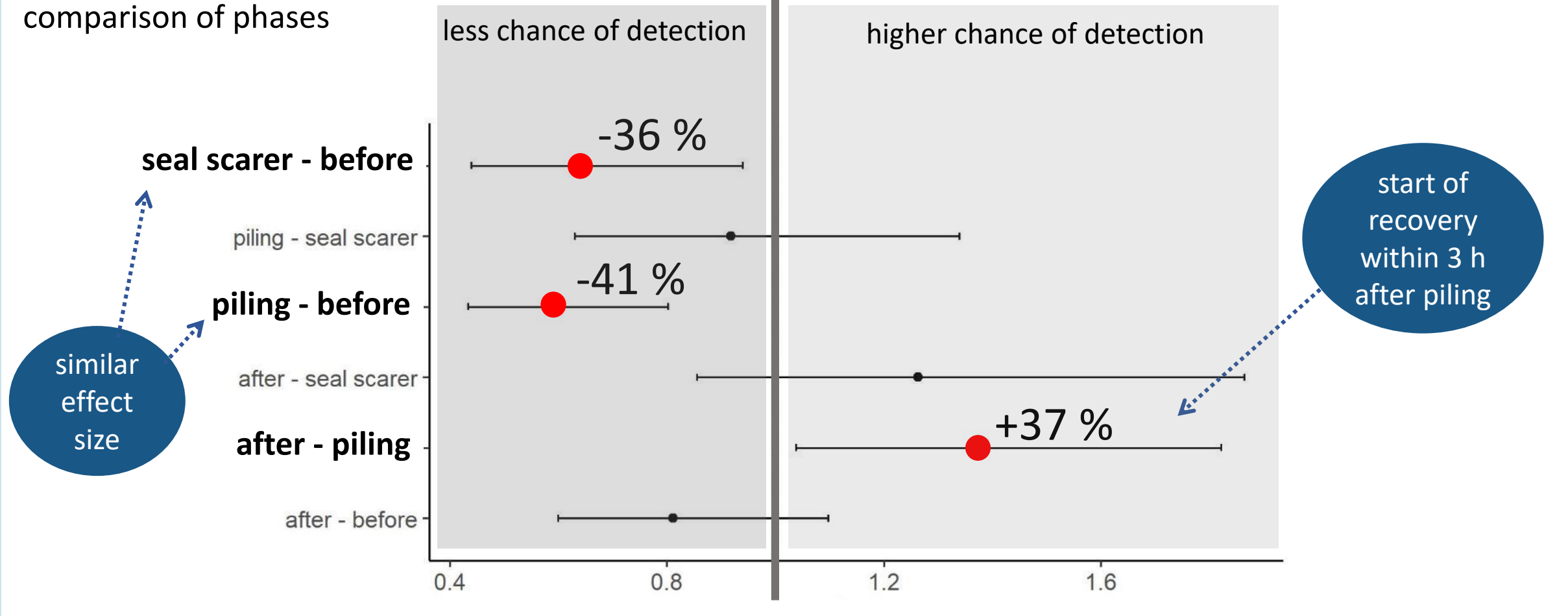


First results

- **nearly 100 % deterrence at 750 m**
- **decreasing detection rates prior to disturbance**

# Results at 1500 m – odds ratio

comparison of phases



For more information on the project...  
... check out our further contributions

**Poster 1102 and talks 713 and 1357**

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