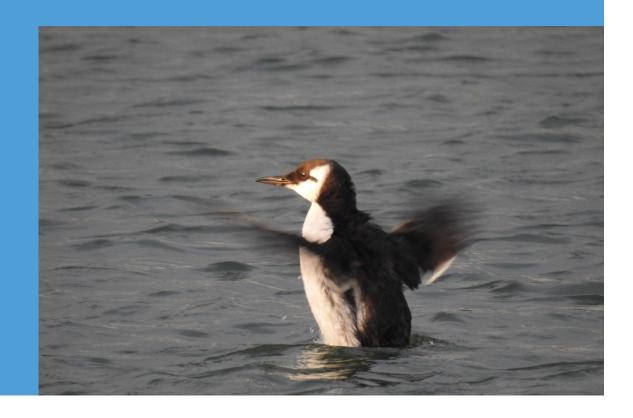
Presence of guillemots in wind farms

WOZEP 15 March 2018, Mardik Leopold





Why guillemots?



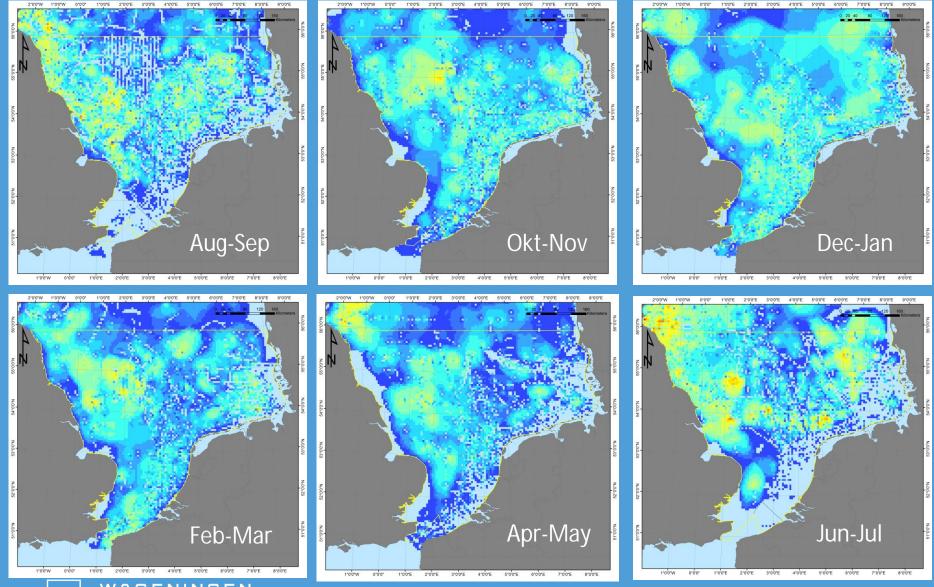


Simple model-species:

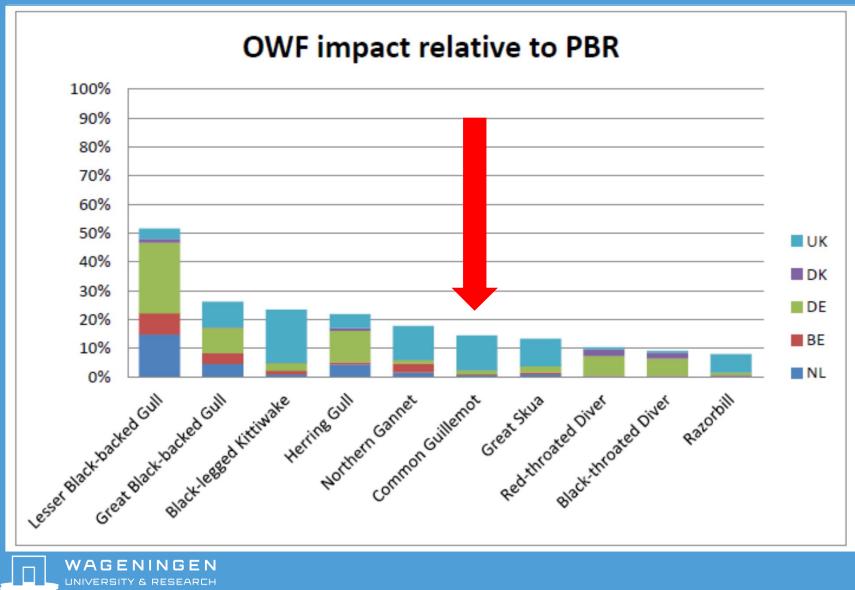
- Omni-present (relevant to all North Sea countries)
- Common
- Gets displaced by OWFs
- No collision risk; only habitat loss
- No attraction to fishing vessels (clean distribution)



At-sea distribution Common Guillemot



Population effects?

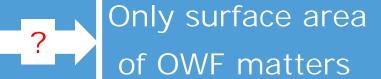




• Underlying assumptions:

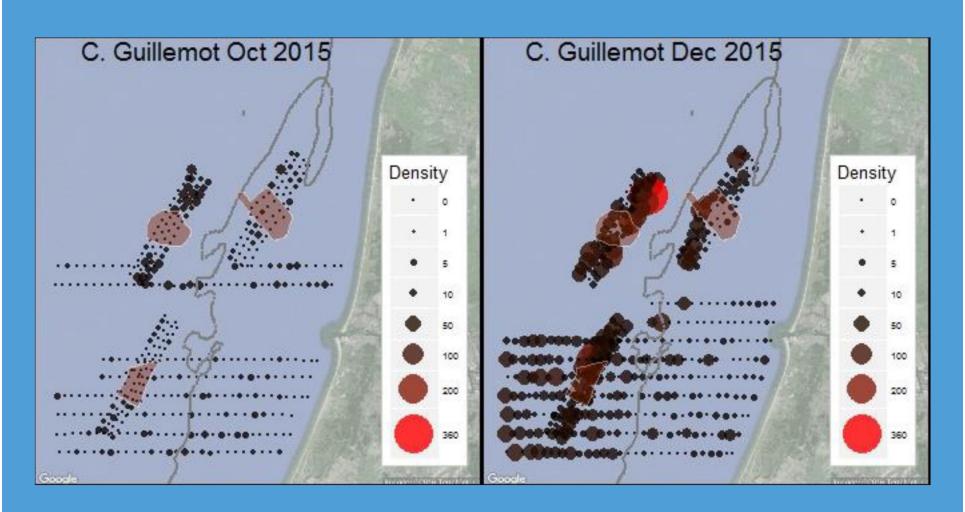
- 100% displacement
- 10% of displaced birds die
- No effect of OWF design
- No effect of location
- No effect of season

- X
- ?



- Changes within OWF are due to OWF only
- Background density does not matter
- Birds do not adapt / learn?

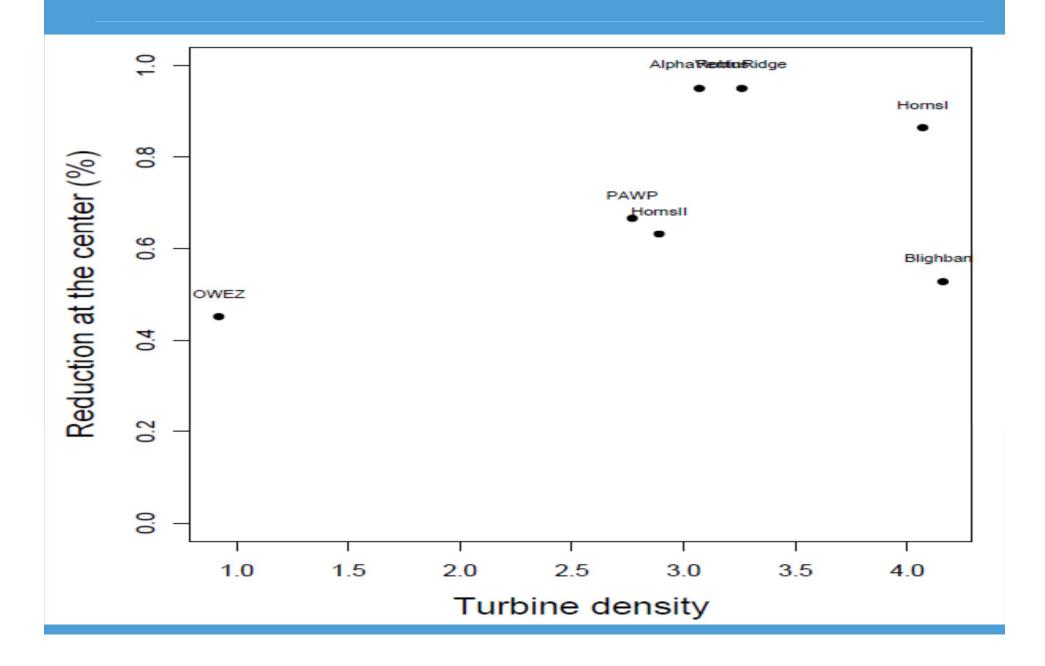




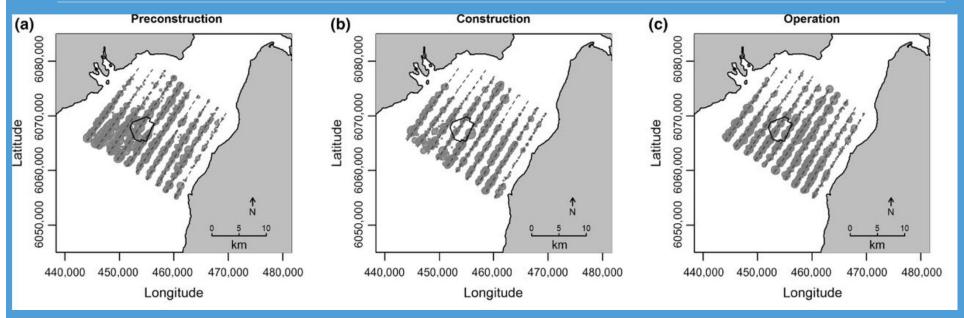


Skov H., Heinänen S., Lazcny M. & Chudzinska M. 2016 Offshore Windfarm Eneco Luchterduinen. Ecological monitoring of seabirds, T1 report

OWF design



Robin Rigg OWF: guillemots



Vallejo et al. 2017. Responses of two marine top predators to an offshore wind farm. Ecol. Evol. 2017: 1-11.





Robin Rigg OWF: guillemots

