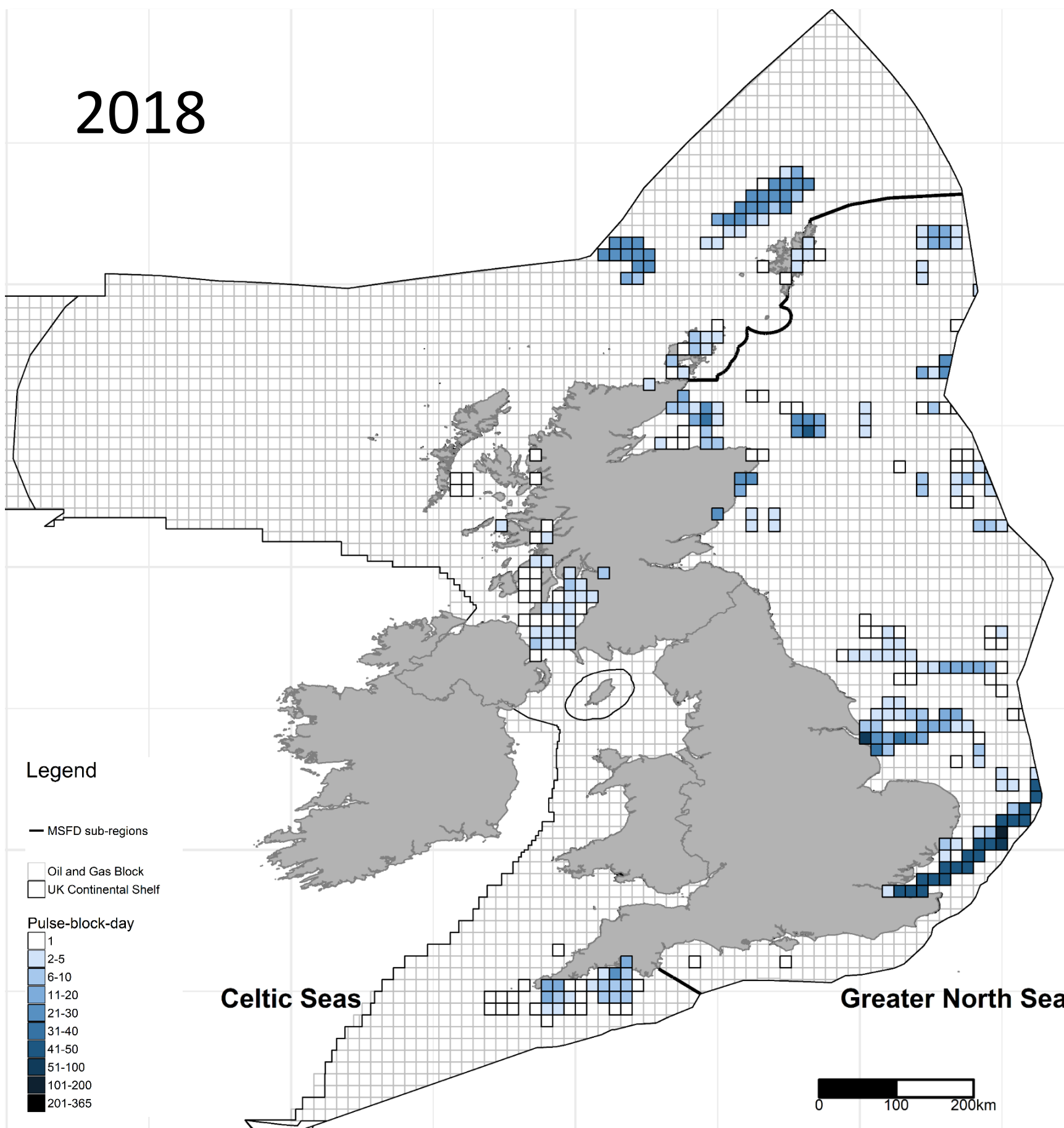
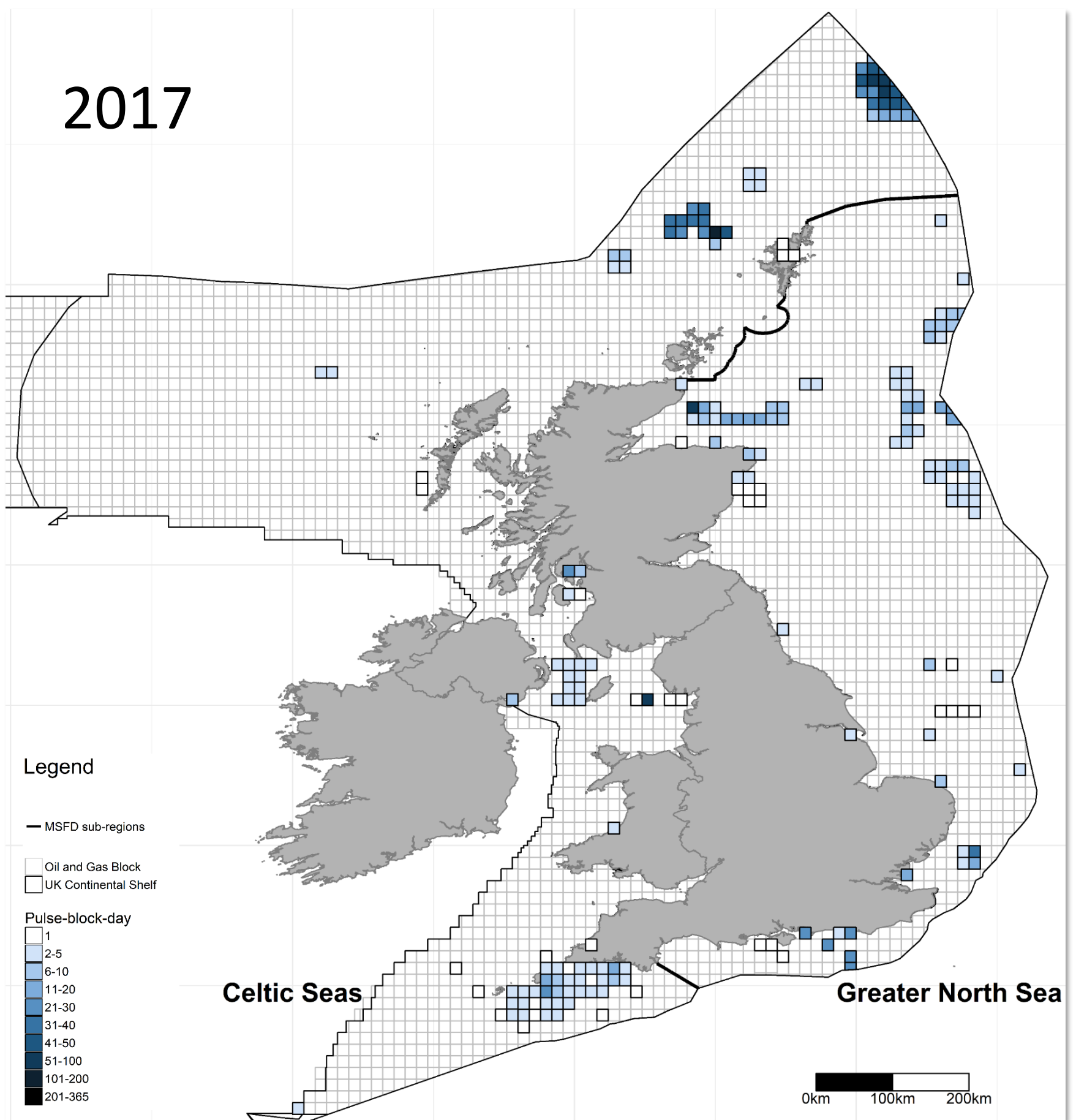
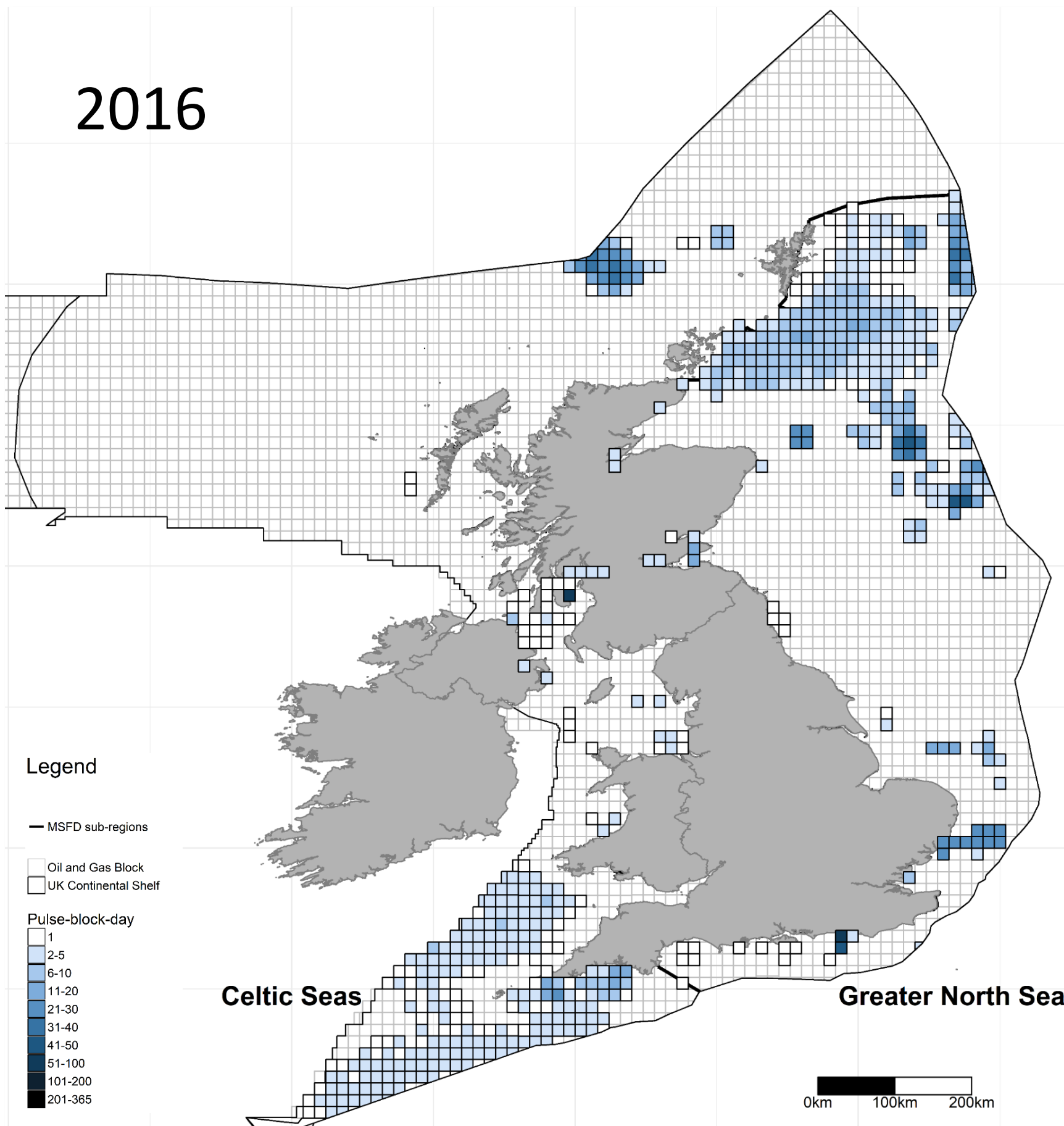
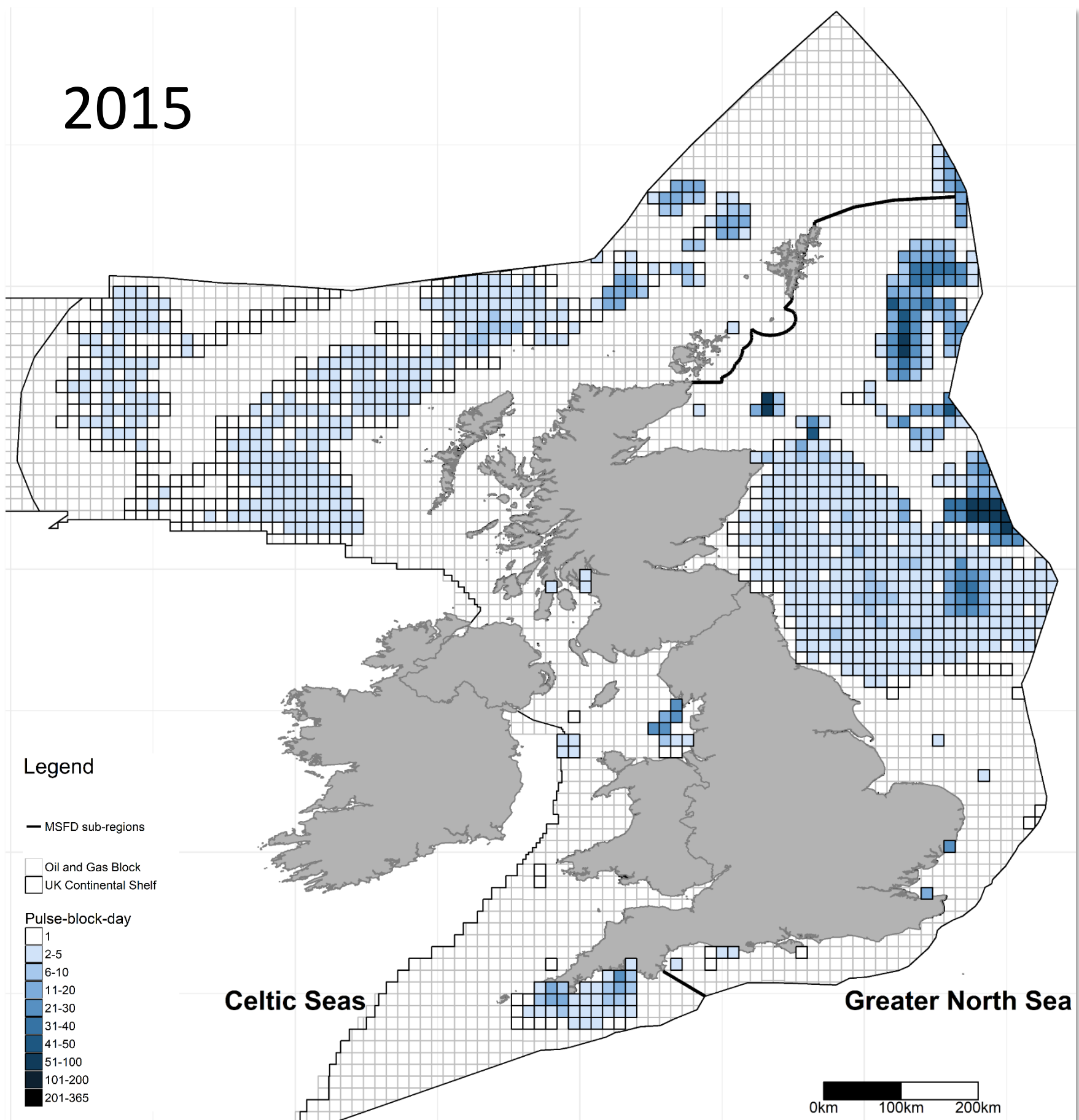


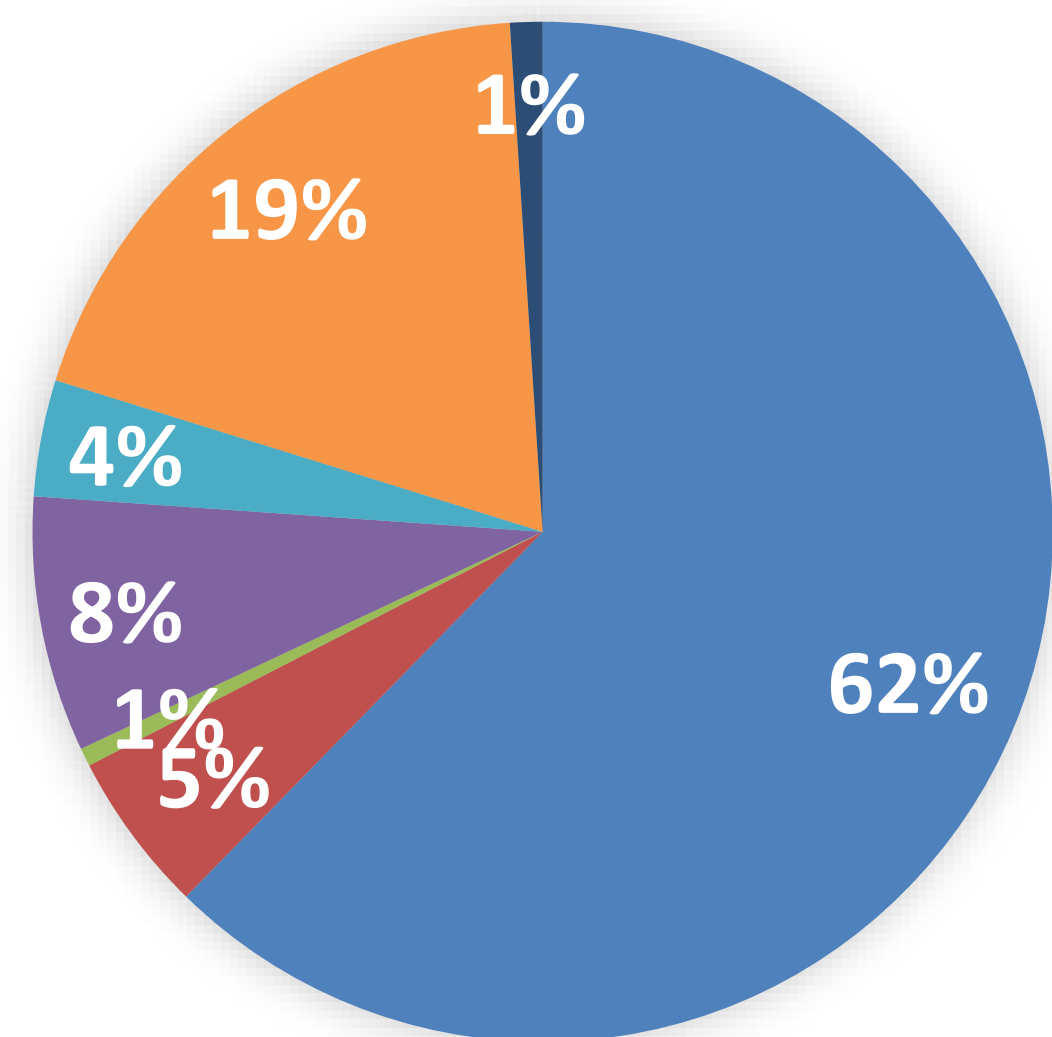
# Impulsive Noise Pressure in UK Marine Waters: A Four Year Time Series 2015 - 2018

JNCC developed the UK Marine Noise Registry; an online portal for data entry, collating man made low – mid frequency impulsive noise data since 2015.



Maps show **pulse block days**, a coarse unit representing the number of days a UK oil and gas licensing block experienced impulsive within the year.

Percentage share of total pulse block days over the 4 years for each activity type recorded within the MNR:



- Seismic Survey
- Ministry of Defence
- Explosives
- Multibeam Echosounders
- Pile Driving
- Sub-bottom Profilers
- Acoustic Deterrent Device

	2015	2016	2017	2018
Highest number of days that noise activity was experienced in a single block	99	62	101	144
Percentage of blocks that experienced noise activity (n = 4407)	24%	14%	5%	7%
Percentage of blocks (with noise) that experienced less than 5 days of noise activity	80%	61%	51%	55%



## Conclusions and Ongoing Work

- Improved reporting year on year has lead to a better understanding of impulsive noise pressure on UK seas.
- Seismic surveys contribute the highest number of days of impulsive noise.
- There are still data gaps e.g. acoustic deterrent devices used at fish farms; establishing data collection routes for missing data is ongoing.
- UK noise registry data has been used in both national and international indicators of underwater noise pressure.
- Ongoing work at regional level to develop an indicator of the effects of impulsive noise on marine species.