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Key revisions to assessments of displacement presented in the Furness & Wade (2012) offshore wind vulnerability indices

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What's changed?

a) Split 'displacement caused by structures, vessels and helicopters' vulnerability factor

1) Displacement caused by structures

2) Displacement caused by vessels and/or helicopters

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What's changed?

b) Updated the two new displacement factors with newly available information and adjusted species scores where necessary - scores range from 1 (low) to 5 (high)

Species examples	Displacement caused by structures, vessels and helicopters score (Furness & Wade 2012)	1) Displacement caused by structures score	2) Displacement caused by vessels and helicopters score
Gannet	2	4	1
Razorbill	3	4	3
Cormorant	4	1	4

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What's changed?

c) Recalculated vulnerability to displacement caused by offshore wind farms:

$$Displacement\ score = \frac{(b \times c) \times conservation\ score}{10}$$

(Furness and Wade 2012)

b = combined factor, c = habitat specialisation,

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What's changed?

c) Recalculated vulnerability to displacement caused by offshore wind farms:

$$Displacement\ score = \frac{(b \times c) \times conservation\ score}{10}$$

(Furness and Wade 2012)

$$Displacement\ score = \frac{((c \times d) + e) \times conservation\ score}{10}$$

i) Incorporated the two new displacement factors

ii) Heavier weighting on the effect of structures

b = combined factor, c = habitat specialisation*, d =* structures*, e = vessels/helicopters*

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New aspect

d) Assessed quality, quantity and relevance of data contributing to the two new vulnerability factors

Species	Structures confidence level	Score	Vessels and/or helicopter confidence level	Score
Common guillemot	High	5	Low	3
Razorbill	High	5	Low	3
Black-legged kittiwake	High	5	Uncertain	2
Common scoter	High	5	Low	3
Northern gannet	High	5	Uncertain	2
Common tern	Moderate	4	Uncertain	2
Great black-backed gull	High	5	Uncertain	2
Great cormorant	High	5	Uncertain	2
White-tailed eagle	Uncertain	2	Uncertain	2
Common goldeneye	Poor	1	Uncertain	2
European storm-petrel	Uncertain	2	Uncertain	2
Leach's storm-petrel	Uncertain	2	Uncertain	2
Long-tailed duck	Uncertain	2	Uncertain	2
Slavonian grebe	Uncertain	2	Uncertain	2
Velvet scoter	Poor	1	Uncertain	2
Greater scaup	Poor	1	Poor	1

Confidence score	Confidence level
5	High
4	Moderate
3	Low
2	Uncertain
1	Poor

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