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Integrating wind turbines and fish farms: An evaluation of potential risks to marine and coastal bird species

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Scores and uncertainty assessments

Table A1. Conservation factors A–C. Uncertainty assessments U1 (Specificity), U2 (Relevance) and U3 (Relevance) are indicated in brackets.

Species	Factor A: % Biogeographic population in Scotland Score	Factor A: References	Factor B: Life History Score	Factor B: References	Factor C: UK Threat Status Score	Factor C: References
Mute swan (<i>Cygnus olor</i>)	3 (1/1/1)	[31,33]	2 (1/1/1)	[33,56]	3 (1/1/1)	[35,36]
Whooper swan (<i>Cygnus cygnus</i>)	3 (1/1/1)	[31,33]	3 (1/1/2)	[33,57]	4 (1/1/1)	[35,36]
White-fronted goose (<i>Anser albifrons</i>)	2 (1/1/1)	[31,33]	3 (1/1/2)	[33,58]	5 (1/1/1)	[35,36]
Greylag goose (<i>Anser anser</i>)	5 (1/1/1)	[31,33]	3 (1/1/2)	[33,59]	4 (1/1/1)	[35,36]
Canada goose (<i>Branta canadensis</i>)	5 (1/1/1)	[31,33]	3 (1/1/1)	[33,60]	1 (1/1/1)	[35,36]
Barnacle goose (<i>Branta leucopsis</i>)	5 (1/1/1)	[31,33]	3 (1/1/2)	[33,61]	4 (1/1/1)	[35,36]
Brent goose (<i>Branta bernicla</i>)	2 (1/1/1)	[31,33]	3 (1/1/2)	[33,62]	4 (1/1/1)	[35,36]
Shelduck (<i>Tadorna tadorna</i>)	3 (1/1/1)	[31,33]	1 (1/1/1)	[33,63]	4 (1/1/1)	[35,36]
Mallard (<i>Anas platyrhynchos</i>)	2 (1/1/1)	[31,33]	1 (1/1/2)	[33,64]	4 (1/1/1)	[35,36]
Wigeon (<i>Anas penelope</i>)	3 (1/1/1)	[31,33]	2 (1/1/1)	[33,65]	4 (1/1/1)	[35,36]
Teal (<i>Anas crecca</i>)	3 (1/1/1)	[31,33]	2 (1/1/2)	[33,66]	4 (1/1/1)	[35,36]
Greater scaup (<i>Aythya marila</i>)	2 (1/1/1)	[31,33]	2 (1/1/2)	[33,67]	5 (1/1/1)	[35,36]
Tufted duck (<i>Aythya fuligula</i>)	2 (1/1/1)	[31,33]	1 (1/1/2)	[33,68]	2 (1/1/1)	[35,36]
Common eider (<i>Somateria mollissima</i>)	2 (1/1/1)	[31,33]	3 (1/1/2)	[33,69]	4 (1/1/1)	[35,36]
Common scoter (<i>Melanitta nigra</i>)	2 (1/1/1)	[31,33]	2 (1/1/2)	[33,69]	5 (1/1/1)	[35,36]
Long-tailed duck (<i>Clangula hyemalis</i>)	2 (1/1/1)	[31,33]	2 (1/1/2)	[33,70]	5 (1/1/1)	[35,36]
Common goldeneye (<i>Bucephala clangula</i>)	2 (1/1/1)	[31,33]	1 (1/1/2)	[33,69]	4 (1/1/1)	[35,36]
Red-breasted merganser (<i>Mergus serrator</i>)	3 (1/1/1)	[31,33]	2 (1/1/2)	[33,71]	1 (1/1/1)	[35,36]
Red-throated diver (<i>Gavia stellata</i>)	4 (1/1/1)	[31,33]	4 (1/1/2)	[33,72]	2 (1/1/1)	[35,36]
Black-throated diver (<i>Gavia arctica</i>)	3 (1/1/1)	[31,33]	4 (1/1/2)	[33,73]	4 (1/1/1)	[35,36]
Great northern diver (<i>Gavia immer</i>)	5 (1/1/1)	[31,33]	4 (1/1/3)	[33,30] - from related species	4 (1/1/1)	[35,36]
Slavonian grebe (<i>Podiceps auritus</i>)	3 (1/1/1)	[31,33]	4 (1/1/3)	[33,30] - from related species	5 (1/1/1)	[35,36]
Little grebe (<i>Tachybaptus ruficollis</i>)	3 (1/1/1)	[31,33]	1 (1/1/2)	[33,74]	2 (1/1/1)	[35,36]
Northern fulmar (<i>Fulmarus glacialis</i>)	4 (1/1/1)	[31,33]	5 (1/1/2)	[33,29]	4 (1/1/1)	[35,36]

Sooty shearwater (<i>Puffinus griseus</i>)	1 (1/1/1)	[31,33]	5 (1/1/3)	[33,75]	2 (1/1/1)	[35,36]
Manx shearwater (<i>Puffinus puffinus</i>)	5 (1/1/1)	[31,33]	5 (1/1/1)	[33,76]	4 (1/1/1)	[35,36]
European storm-petrel (<i>Hydrobates pelagicus</i>)	3 (1/1/1)	[31,33]	5 (1/1/1)	[33,77]	4 (1/1/1)	[35,36]
Leach's storm-petrel (<i>Oceanodroma leucorhoa</i>)	2 (1/1/1)	[31,33]	5 (1/1/3)	[30,33] - from related species	4 (1/1/1)	[35,36]
Northern gannet (<i>Morus bassanus</i>)	5 (1/1/1)	[31,33]	5 (1/1/1)	[33,78]	4 (1/1/1)	[35,36]
Great cormorant (<i>Phalacrocorax carbo</i>)	3 (1/1/1)	[31,33]	3 (1/1/2)	[33,79]	1 (1/1/1)	[35,36]
Shag (<i>Phalacrocorax aristotelis</i>)	5 (1/1/1)	[31,33]	4 (1/1/1)	[33,80]	5 (1/1/1)	[35,36]
Grey heron (<i>Ardea cinerea</i>)	3 (1/1/1)	[31,33]	4 (1/1/1)	[33,81]	1 (1/1/1)	[35,36]
White-tailed eagle (<i>Haliaeetus albicilla</i>)	1 (1/1/1)	[31,33]	4 (1/1/2)	[29,33]	5 (1/1/1)	[35,36]
Osprey (<i>Pandion haliaetus</i>)	2 (1/1/1)	[31,33]	4 (1/1/3)	[33,82]	4 (1/1/1)	[35,36]
Golden eagle (<i>Aquila chrysaetos</i>)	3 (1/1/1)	[31,33]	4 (1/1/1)	[33,83]	2 (1/1/1)	[35,36]
Peregrine falcon (<i>Falco peregrinus</i>)	3 (1/1/1)	[31,33]	4 (1/1/1)	[33,84]	1 (1/1/1)	[35,36]
Oystercatcher (<i>Haematopus ostralegus</i>)	5 (1/1/1)	[31,33]	4 (1/1/2)	[33,85]	4 (1/1/1)	[35,36]
Ringed plover (<i>Charadrius hiaticula</i>)	3 (1/1/1)	[31,33]	1 (1/1/2)	[33,86]	5 (1/1/1)	[35,36]
Grey plover (<i>Pluvialis squatarola</i>)	2 (1/1/1)	[31,33]	3 (1/1/2)	[33,87]	4 (1/1/1)	[35,36]
Golden plover (<i>Pluvialis apricaria</i>)	4 (1/1/1)	[31,33]	4 (1/1/2)	[33,88]	2 (1/1/1)	[35,36]
Knot (<i>Calidris canutus</i>)	3 (1/1/1)	[31,33]	3 (1/1/2)	[33,86]	4 (1/1/1)	[35,36]
Sanderling (<i>Calidris alba</i>)	4 (1/1/1)	[31,33]	3 (1/1/2)	[33,86]	3 (1/1/1)	[35,36]
Purple sandpiper (<i>Calidris maritima</i>)	5 (1/1/1)	[31,33]	3 (1/1/2)	[33,86]	4 (1/1/1)	[35,36]
Turnstone (<i>Arenaria interpres</i>)	5 (1/1/1)	[31,33]	3 (1/1/2)	[33,86]	4 (1/1/1)	[35,36]
Dunlin (<i>Calidris alpina</i>)	2 (1/1/1)	[31,33]	4 (1/1/2)	[33,86]	4 (1/1/1)	[35,36]
Little stint (<i>Calidris minuta</i>)	4 (1/1/1)	[31,33]	3 (2/3/3)	[33] - Presumed similar to Sanderling	1 (1/1/1)	[35,36]
Common sandpiper (<i>Actitis hypoleucos</i>)	3 (1/1/1)	[31,33]	3 (1/1/2)	[33,86]	4 (1/1/1)	[35,36]
Redshank (<i>Tringa totanus</i>)	5 (1/1/1)	[31,33]	4 (1/1/2)	[33,86]	4 (1/1/1)	[35,36]
Greenshank (<i>Tringa nebularia</i>)	2 (1/1/1)	[31,33]	4 (2/3/3)	[33] - Presumed similar to Sanderling	3 (1/1/1)	[35,36]
Black-tailed godwit (<i>Limosa limosa</i>)	1 (1/1/1)	[31,33]	3 (1/1/2)	[33,86]	5 (1/1/1)	[35,36]
Bar-tailed godwit (<i>Limosa lapponica</i>)	4 (1/1/1)	[31,33]	4 (1/1/2)	[33,86]	4 (1/1/1)	[35,36]
Curlew (<i>Numenius arquata</i>)	5 (1/1/1)	[31,33]	4 (1/1/2)	[33,86]	5 (1/1/1)	[35,36]
Whimbrel (<i>Numenius phaeopus</i>)	1 (1/1/1)	[31,33]	3 (1/1/2)	[33,86]	5 (1/1/1)	[35,36]

Grey phalarope (<i>Phalaropus fulicarius</i>)	2 (1/1/1)	[31,33]	3 (2/3/3)	[33] - Presumed similar to Red-necked phalarope	1 (1/1/1)	[35,36]
Red-necked phalarope (<i>Phalaropus lobatus</i>)	1 (1/1/1)	[31,33]	3 (1/1/2)	[33,89]	5 (1/1/1)	[35,36]
Great skua (<i>Catharacta skua</i>)	5 (1/1/1)	[31,33]	4 (1/1/1)	[33,90]	4 (1/1/1)	[35,36]
Pomarine skua (<i>Stercorarius pomarinus</i>)	3 (1/1/1)	[31,33]	4 (2/3/3)	[33] - Presumed similar to Arctic skua	1 (1/1/1)	[35,36]
Arctic skua (<i>Stercorarius parasiticus</i>)	3 (1/1/1)	[31,33]	4 (1/1/2)	[29,33]	5 (1/1/1)	[35,36]
Long-tailed skua (<i>Stercorarius longicaudus</i>)	2 (1/1/1)	[31,33]	4 (2/3/3)	[33] - Presumed similar to Arctic skua	1 (1/1/1)	[35,36]
Black-headed gull (<i>Chroicocephalus ridibundus</i>)	2 (1/1/1)	[31,33]	4 (1/1/2)	[33,91]	4 (1/1/1)	[35,36]
Common gull (<i>Larus canus</i>)	3 (1/1/1)	[31,33]	4 (1/1/2)	[29,33]	4 (1/1/1)	[35,36]
Herring gull (<i>Larus argentatus</i>)	3 (1/1/1)	[31,33]	4 (1/1/1)	[33,92]	5 (1/1/1)	[35,36]
Great black-backed gull (<i>Larus marinus</i>)	4 (1/1/1)	[31,33]	4 (1/1/2)	[29,33]	4 (1/1/1)	[35,36]
Lesser black-backed gull (<i>Larus fuscus</i>)	4 (1/1/1)	[31,33]	4 (1/1/1)	[33,92]	4 (1/1/1)	[35,36]
Black-legged kittiwake (<i>Rissa tridactyla</i>)	4 (1/1/1)	[31,33]	4 (1/1/1)	[33,80]	5 (1/1/1)	[35,36]
Glaucous gull (<i>Larus hyperboreus</i>)	1 (1/1/1)	[31,33]	4 (1/1/3)	[33,93]	4 (1/1/1)	[35,36]
Iceland gull (<i>Larus glaucooides</i>)	1 (1/1/1)	[31,33]	4 (2/3/3)	[33] - Presumed similar to Glaucous gull	4 (1/1/1)	[35,36]
Little tern (<i>Sterna albifrons</i>)	2 (1/1/1)	[31,33]	4 (1/1/2)	[30,33] - from related species	4 (1/1/1)	[35,36]
Common tern (<i>Sterna hirundo</i>)	2 (1/1/1)	[31,33]	4 (1/1/2)	[29,33]	4 (1/1/1)	[35,36]
Arctic tern (<i>Sterna paradisaea</i>)	4 (1/1/1)	[31,33]	5 (1/1/2)	[29,33]	4 (1/1/1)	[35,36]
Little auk (<i>Alle alle</i>)	1 (1/1/1)	[31,33]	5 (1/1/2)	[33,94]	1 (1/1/1)	[35,36]
Atlantic puffin (<i>Fratercula arctica</i>)	4 (1/1/1)	[31,33]	5 (1/1/1)	[33,80]	5 (1/1/1)	[35,36]
Black guillemot (<i>Cepphus grylle</i>)	4 (1/1/1)	[31,33]	5 (1/1/2)	[33,95]	4 (1/1/1)	[35,36]
Common guillemot (<i>Uria aalge</i>)	5 (1/1/1)	[31,33]	5 (1/1/1)	[33,80]	4 (1/1/1)	[35,36]
Razorbill (<i>Alca torda</i>)	4 (1/1/1)	[31,33]	5 (1/1/1)	[33,80]	4 (1/1/1)	[35,36]
Rock dove (<i>Columba livia livia</i>)	1 (2/1/1)	[31,33]	1 (2/1/1)	[33,96]	1 (1/1/1)	[35,36]

Rock pipit (<i>Anthus petrosus</i>)	5 (1/1/1)	[31,33]	4 (2/1/2)	Presumed similar to meadow pipit [33,97]	1 (1/1/1)	[35,36]
Chough (<i>Pyrrhocorax pyrrhocorax</i>)	1 (1/1/1)	[31,33]	4 (1/1/1)	[33,98]	2 (1/1/1)	[35,36]
Hooded crow (<i>Corvus cornix</i>)	3 (2/3/3)	[31,33]	4 (2/1/2)	[33,99]	1 (1/1/1)	[35,36]
Raven (<i>Corvus corax</i>)	2 (1/1/1)	[31,33]	3 (1/1/1)	Presumed similar to carrion crow [33]	1 (1/1/1)	[35,36]
Starling (<i>Sturnus vulgaris</i>)	3 (1/1/1)	[31,33]	2 (1/1/1)	[33,100]	5 (1/1/1)	[35,36]
Twite (<i>Carduelis flavirostris</i>)	4 (1/1/1)	[31,33]	3 (2/1/1)	Presumed similar to Linnet [33,101]	5 (1/1/1)	[35,36]

Table A2. Vulnerability factors D–F. Uncertainty assessments U1 (Specificity), U2 (Relevance) and U3 (Relevance) are indicated in brackets.

Species	Factor D: Flight manoeuvrability Score	Factor D: References	Factor E: Nocturnal flight activity Score	Factor E: References	Factor F: Habitat preference Score	Factor F: References
Mute swan (<i>Cygnus olor</i>)	5 (3/3/1)	[28,32]	3 (1/1/1)	[102]	2 (1/1/1)	[28,29,32]
Whooper swan (<i>Cygnus cygnus</i>)	5 (3/3/1)	[28,32]	3 (1/1/1)	[103]	2 (1/1/1)	[28,29,32]
White-fronted goose (<i>Anser albifrons</i>)	4 (3/3/3)	[28,32]	2 (1/2/1)	[104]	2 (1/1/1)	[28,29,32]
Greylag goose (<i>Anser anser</i>)	4 (3/3/1)	[28,32]	3 (1/1/2)	[105]	2 (1/1/1)	[28,29,32]
Canada goose (<i>Branta canadensis</i>)	4 (3/3/1)	[28,32]	3 (1/1/2)	[106]	2 (1/1/1)	[28,29,32]
Barnacle goose (<i>Branta leucopsis</i>)	4 (3/3/1)	[28,32]	3 (1/1/1)	[107]	2 (1/1/1)	[28,29,32]
Brent goose (<i>Branta bernicla</i>)	4 (3/3/3)	[28,32]	3 (1/1/2)	[108]	2 (1/1/1)	[28,29,32]
Shelduck (<i>Tadorna tadorna</i>)	3 (3/3/3)	[28,32]	4 (1/1/1)	[109]	2 (1/1/1)	[28,29,32]
Mallard (<i>Anas platyrhynchos</i>)	3 (3/3/1)	[28,32]	3 (1/1/1)	[110]	2 (1/1/1)	[28,29,32]
Wigeon (<i>Anas penelope</i>)	3 (3/3/3)	[28,32]	4 (1/1/1)	[111]	2 (1/1/1)	[28,29,32]
Teal (<i>Anas crecca</i>)	2 (3/3/3)	[28,32]	4 (1/1/1)	[112]	2 (1/1/1)	[28,29,32]
Greater scaup (<i>Aythya marila</i>)	3 (1/1/2)	[113]	5 (1/1/2)	[114]	2 (1/1/1)	[28,29,32]
Tufted duck (<i>Aythya fuligula</i>)	3 (3/3/3)	[28,32]	5 (1/1/2)	[115]	2 (1/1/1)	[28,29,32]
Common eider (<i>Somateria mollissima</i>)	4 (1/2/2)	[15]	3 (1/2/2)	[15]	2 (1/1/1)	[28,29,32]
Common scoter (<i>Melanitta nigra</i>)	3 (1/2/2)	[15]	3 (1/2/2)	[15]	2 (1/1/1)	[28,29,32]
Long-tailed duck (<i>Clangula hyemalis</i>)	3 (1/2/2)	[116]	3 (3/3/3)	Presumed similar to scoter	2 (1/1/1)	[28,29,32]
Common goldeneye (<i>Bucephala clangula</i>)	3 (1/1/2)	[116]	3 (3/3/3)	Presumed similar to scoter	4 (1/1/1)	[28,29,32]
Red-breasted merganser (<i>Mergus serrator</i>)	4 (1/1/1)	[113]	2 (1/1/2)	[114]	4 (1/1/1)	[28,29,32]
Red-throated diver (<i>Gavia stellata</i>)	5 (1/2/2)	[15]	1 (1/2/2)	[15,117]	5 (1/1/1)	[28,29,32]
Black-throated diver (<i>Gavia arctica</i>)	5 (1/2/2)	[15]	1 (1/2/2)	[15]	4 (1/1/1)	[28,29,32]
Great northern diver (<i>Gavia immer</i>)	5 (1/2/2)	Presumed similar to other divers	1 (3/3/3)	Presumed similar to other divers	4 (1/1/1)	[28,29,32]
Slavonian grebe (<i>Podiceps auritus</i>)	4 (2/2/2)	[118]	2 (1/2/2)	Presumed similar to great crested grebe [15]	4 (1/1/1)	[28,29,32]
Little grebe (<i>Tachybaptus ruficollis</i>)	4 (2/2/2)	[118]	1 (1/1/1)	[119]	3 (1/1/1)	[28,29,32]

Northern fulmar (<i>Fulmarus glacialis</i>)	3 (1/1/1)	[15,120]	4 (1/2/2)	[15]	5 (1/1/1)	[28,29,32]
Sooty shearwater (<i>Puffinus griseus</i>)	3 (1/1/2)	[121,122]	3 (1/2/2)	[29]	5 (1/1/1)	[28,29,32]
Manx shearwater (<i>Puffinus puffinus</i>)	3 (1/1/2)	[121]	3 (1/2/2)	[29]	5 (1/1/1)	[28,29,32]
European storm-petrel (<i>Hydrobates pelagicus</i>)	1 (1/1/2)	[121]	4 (1/1/2)	[123]	5 (1/1/1)	[28,29,32]
Leach's storm-petrel (<i>Oceanodroma leucorhoa</i>)	1 (1/1/2)	[121,122]	4 (1/2/2)	[29]	4 (1/1/1)	[28,29,32]
Northern gannet (<i>Morus bassanus</i>)	3 (1/1/1)	[15,120]	2 (1/1/1)	[15]	5 (1/1/1)	[28,29,32]
Great cormorant (<i>Phalacrocorax carbo</i>)	4 (1/2/1)	[15,124]	1 (1/2/2)	[29]	5 (1/1/1)	[28,29,32]
Shag (<i>Phalacrocorax aristotelis</i>)	3 (1/1/1)	[120]	1 (1/2/2)	[29]	5 (1/1/1)	[28,29,32]
Grey heron (<i>Ardea cinerea</i>)	4 (3/3/1)	[28,32]	4 (1/1/1)	[26]	5 (1/1/1)	[28,29,32]
White-tailed eagle (<i>Haliaeetus albicilla</i>)	4 (3/3/1)	[28,32,125]	1 (1/3/1)	[125,126]	5 (1/1/1)	[28,29,32]
Osprey (<i>Pandion haliaetus</i>)	4 (2/3/3)	[28,32]	3 (1/1/3)	[127]	4 (1/1/1)	[28,29,32]
Golden eagle (<i>Aquila chrysaetos</i>)	4 (1/1/2)	[128]	1 (3/3/3)	Lack of observations to the contrary	4 (1/1/1)	[28,29,32]
Peregrine falcon (<i>Falco peregrinus</i>)	3 (1/1/2)	[128]	3 (1/1/2)	[129]	5 (1/1/1)	[28,29,32]
Oystercatcher (<i>Haematopus ostralegus</i>)	2 (3/3/1)	[28,32]	3 (1/1/1)	[130]	4 (1/1/1)	[28,29,32]
Ringed plover (<i>Charadrius hiaticula</i>)	2 (3/3/1)	[28,32]	3 (1/1/1)	[131]	4 (1/1/1)	[28,29,32]
Grey plover (<i>Pluvialis squatarola</i>)	2 (3/3/3)	[28,32]	4 (1/1/1)	[132]	1 (1/1/1)	[28,29,32]
Golden plover (<i>Pluvialis apricaria</i>)	2 (3/3/3)	[28,32]	2 (1/2/1)	[104]	2 (1/1/1)	[28,29,32]
Knot (<i>Calidris canutus</i>)	2 (3/3/3)	[28,32]	4 (1/1/2)	[133]	2 (1/1/1)	[28,29,32]
Sanderling (<i>Calidris alba</i>)	2 (3/3/3)	[28,32]	3 (1/1/3)	[134]	1 (1/1/1)	[28,29,32]
Purple sandpiper (<i>Calidris maritima</i>)	2 (3/3/1)	[28,32]	4 (1/1/1)	[135]	1 (1/1/1)	[28,29,32]
Turnstone (<i>Arenaria interpres</i>)	2 (3/3/1)	[28,32]	1 (1/1/3)	[136]	1 (1/1/1)	[28,29,32]
Dunlin (<i>Calidris alpina</i>)	2 (3/3/3)	[28,32]	3 (1/1/1)	[137]	2 (1/1/1)	[28,29,32]
Little stint (<i>Calidris minuta</i>)	2 (3/3/3)	[28,32]	3 (1/1/3)	[136]	2 (1/1/1)	[28,29,32]
Common sandpiper (<i>Actitis hypoleucos</i>)	2 (3/3/1)	[28,32]	4 (1/1/2)	[138]	2 (1/1/1)	[28,29,32]
Redshank (<i>Tringa totanus</i>)	2 (3/3/1)	[28,32]	4 (1/1/1)	[139]	2 (1/1/1)	[28,29,32]
Greenshank (<i>Tringa nebularia</i>)	2 (3/3/3)	[28,32]	3 (1/1/3)	[136]	2 (1/1/1)	[28,29,32]

Black-tailed godwit (<i>Limosa limosa</i>)	2 (3/3/3)	[28,32]	3 (1/1/2)	[140]	2 (1/1/1)	[28,29,32]
Bar-tailed godwit (<i>Limosa lapponica</i>)	2 (3/3/3)	[28,32]	3 (1/2/1)	[104]	2 (1/1/1)	[28,29,32]
Curlew (<i>Numenius arquata</i>)	2 (3/3/1)	[28,32]	2 (1/1/2)	[141]	2 (1/1/1)	[28,29,32]
Whimbrel (<i>Numenius phaeopus</i>)	2 (3/3/3)	[28,32]	3 (1/2/1)	[104]	2 (1/1/1)	[28,29,32]
Grey phalarope (<i>Phalaropus fulicarius</i>)	2 (3/3/3)	[28,32]	3 (3/3/3)	No information available	2 (1/1/1)	[28,29,32]
Red-necked phalarope (<i>Phalaropus lobatus</i>)	2 (3/3/3)	[28,32]	3 (3/3/3)	No information available	2 (1/1/1)	[28,29,32]
Great skua (<i>Catharacta skua</i>)	1 (1/1/1)	[15,120]	1 (1/2/2)	[15]	2 (1/1/1)	[28,29,32]
Pomarine skua (<i>Stercorarius pomarinus</i>)	1 (1/1/1)	[113]	1 (3/3/3)	Assumed similar to arctic skua	2 (1/1/1)	[28,29,32]
Arctic skua (<i>Stercorarius parasiticus</i>)	1 (1/1/1)	[15,120]	1 (1/2/2)	[15]	2 (1/1/1)	[28,29,32]
Long-tailed skua (<i>Stercorarius longicaudus</i>)	1 (1/1/1)	[113]	1 (3/3/3)	Assumed similar to arctic skua	2 (1/1/1)	[28,29,32]
Black-headed gull (<i>Chroicocephalus ridibundus</i>)	1 (1/2/1)	[15]	2 (1/2/2)	[15]	2 (1/1/1)	[28,29,32]
Common gull (<i>Larus canus</i>)	1 (1/2/1)	[15]	3 (1/2/2)	[15]	2 (1/1/1)	[28,29,32]
Herring gull (<i>Larus argentatus</i>)	2 (1/1/1)	[15,120]	3 (1/2/2)	[15,142]	4 (1/1/1)	[28,29,32]
Great black-backed gull (<i>Larus marinus</i>)	2 (1/1/1)	[15,120]	3 (1/2/2)	[15,142]	4 (1/1/1)	[28,29,32]
Lesser black-backed gull (<i>Larus fuscus</i>)	2 (1/2/1)	[15,32,124]	3 (1/2/2)	[15,142]	5 (1/1/1)	[28,29,32]
Black-legged kittiwake (<i>Rissa tridactyla</i>)	1 (1/1/1)	[15,120]	3 (1/2/2)	[15,143]	4 (1/1/1)	[28,29,32]
Glaucous gull (<i>Larus hyperboreus</i>)	2 (3/3/3)	[28]	3 (3/3/3)	Assumed similar to herring gull	4 (1/1/1)	[28,29,32]
Iceland gull (<i>Larus glaucooides</i>)	1 (3/3/3)	[28]	3 (3/3/3)	Assumed similar to herring gull	4 (1/1/1)	[28,29,32]
Little tern (<i>Sterna albifrons</i>)	1 (2/2/2)	[122]	1 (1/1/1)	[144]	3 (1/1/1)	[28,29,32]
Common tern (<i>Sterna hirundo</i>)	1 (1/2/1)	[15]	1 (1/2/2)	[15]	5 (1/1/1)	[28,29,32]
Arctic tern (<i>Sterna paradisaea</i>)	1 (1/2/1)	[15,120]	1 (1/2/2)	[15]	5 (1/1/1)	[28,29,32]
Little auk (<i>Alle alle</i>)	3 (1/1/2)	[145]	1 (3/3/3)	Assumed similar to other alcids	5 (1/1/1)	[28,29,32]
Atlantic puffin (<i>Fratercula arctica</i>)	3 (1/2/1)	[15,120]	1 (1/2/2)	[15]	5 (1/1/1)	[28,29,32]
Black guillemot (<i>Cephus grylle</i>)	3 (1/1/1)	[113]	1 (3/3/3)	Assumed similar to other alcids	4 (1/1/1)	[28,29,32]
Common guillemot (<i>Uria aalge</i>)	4 (1/2/1)	[15,120,146]	2 (1/2/2)	[15]	5 (1/1/1)	[28,29,32]
Razorbill (<i>Alca torda</i>)	4 (1/2/1)	[15,120,146]	1 (1/2/2)	[15]	5 (1/1/1)	[28,29,32]

Rock dove (<i>Columba livia livia</i>)	2 (1/2/2)	[147]	1 (1/1/3)	[148]	5 (1/1/1)	[28,29,32]
Rock pipit (<i>Anthus petrosus</i>)	2 (3/3/1)	[28,32]	1 (1/2/2)	No information available	5 (1/1/1)	[28,29,32]
Chough (<i>Pyrrhocorax pyrrhocorax</i>)	1 (3/3/3)	[28,32]	1 (1/1/2)	[149]	5 (1/1/1)	[28,29,32]
Hooded crow (<i>Corvus cornix</i>)	2 (3/3/1)	[28,32]	1 (1/1/1)	[150]	4 (1/1/1)	[28,29,32]
Raven (<i>Corvus corax</i>)	2 (3/3/1)	[28,32]	1 (1/1/2)	[151]	4 (1/1/1)	[28,29,32]
Starling (<i>Sturnus vulgaris</i>)	2 (3/3/1)	[28,32]	1 (1/2/2)	[152]	5 (1/1/1)	[28,29,32]
Twite (<i>Carduelis flavirostris</i>)	2 (3/3/1)	[28,32]	1 (1/1/1)	[153]	4 (1/1/1)	[28,29,32]

Table A3. Interaction factors G–I. Uncertainty assessments U1 (Specificity), U2 (Relevance) and U3 (Relevance) are indicated in brackets.

Species	Factor G: Foraging around fish farms Score	Factor G: References	Factor H: Resting on fish farms Score	Factor H: References	Factor I: Feeding on shellfish among aquaculture Score	Factor I: References
Mute swan (<i>Cygnus olor</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Whooper swan (<i>Cygnus cygnus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
White-fronted goose (<i>Anser albifrons</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Greylag goose (<i>Anser anser</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Canada goose (<i>Branta canadensis</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Barnacle goose (<i>Branta leucopsis</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Brent goose (<i>Branta bernicla</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Shelduck (<i>Tadorna tadorna</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Mallard (<i>Anas platyrhynchos</i>)	1 (3/3/3)	None identified	2 (3/3/3)	None identified	3 (1/1/1)	[154]
Wigeon (<i>Anas penelope</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Teal (<i>Anas crecca</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Greater scaup (<i>Aythya marila</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	5 (1/1/2)	[37,155]
Tufted duck (<i>Aythya fuligula</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Common eider (<i>Somateria mollissima</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	5 (1/1/1)	[27,38,156]
Common scoter (<i>Melanitta nigra</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	5 (1/1/2)	[156]
Long-tailed duck (<i>Clangula hyemalis</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	5 (1/1/2)	[155,156]

Common goldeneye (<i>Bucephala clangula</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	5 (1/1/1)	[156]
Red-breasted merganser (<i>Mergus serrator</i>)	2 (1/1/1)	[12]	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Red-throated diver (<i>Gavia stellata</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (1/1/1)	[154]
Black-throated diver (<i>Gavia arctica</i>)	2 (1/1/1)	[12]	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Great northern diver (<i>Gavia immer</i>)	2 (1/1/1)	[12]	1 (3/3/3)	None identified	1 (1/1/1)	[154]
Slavonian grebe (<i>Podiceps auritus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Little grebe (<i>Tachybaptus ruficollis</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Northern fulmar (<i>Fulmarus glacialis</i>)	2 (1/1/1)	[14]	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Sooty shearwater (<i>Puffinus griseus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Manx shearwater (<i>Puffinus puffinus</i>)	2 (1/1/1)	[12]	1 (3/3/3)	None identified	1 (3/3/3)	None identified
European storm-petrel (<i>Hydrobates pelagicus</i>)	3 (1/1/3)	[14,157]	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Leach's storm-petrel (<i>Oceanodroma leucorhoa</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Northern gannet (<i>Morus bassanus</i>)	2 (1/1/1)	[12,14]	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Great cormorant (<i>Phalacrocorax carbo</i>)	5 (1/1/1)	[12,14]	5 (1/1/1)	[12,14]	1 (3/3/3)	None identified
Shag (<i>Phalacrocorax aristotelis</i>)	5 (1/1/1)	[12,14,158]	5 (1/1/1)	[12,14]	1 (3/3/3)	None identified
Grey heron (<i>Ardea cinerea</i>)	5 (1/1/1)	[12,14]	4 (1/1/1)	[12,14]	1 (3/3/3)	None identified
White-tailed eagle (<i>Haliaeetus albicilla</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Osprey (<i>Pandion haliaetus</i>)	3 (1/1/1)	[12]	3 (1/1/1)	[12]	1 (3/3/3)	None identified

Golden eagle (<i>Aquila chrysaetos</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Peregrine falcon (<i>Falco peregrinus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Oystercatcher (<i>Haematopus ostralegus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	3 (1/1/1)	[154]
Ringed plover (<i>Charadrius hiaticula</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	3 (1/1/1)	[154]
Grey plover (<i>Pluvialis squatarola</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Golden plover (<i>Pluvialis apricaria</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Knot (<i>Calidris canutus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Sanderling (<i>Calidris alba</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Purple sandpiper (<i>Calidris maritima</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Dunlin (<i>Calidris alpina</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Little stint (<i>Calidris minuta</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Turnstone (<i>Arenaria interpres</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Common sandpiper (<i>Actitis hypoleucos</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Redshank (<i>Tringa totanus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Greenshank (<i>Tringa nebularia</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Black-tailed godwit (<i>Limosa limosa</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Bar-tailed godwit (<i>Limosa lapponica</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Curlew (<i>Numenius arquata</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified

Whimbrel (<i>Numenius phaeopus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Grey phalarope (<i>Phalaropus fulicarius</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Red-necked phalarope (<i>Phalaropus lobatus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Great skua (<i>Catharacta skua</i>)	1 (3/3/3)	None identified	2 (3/3/3)	None identified	1 (3/3/3)	None identified
Pomarine skua (<i>Stercorarius pomarinus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Arctic skua (<i>Stercorarius parasiticus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Long-tailed skua (<i>Stercorarius longicaudus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Black-headed gull (<i>Chroicocephalus ridibundus</i>)	2 (1/1/1)	[12]	4 (3/3/3)	[12]	3 (1/1/1)	[154]
Common gull (<i>Larus canus</i>)	2 (1/1/1)	[12,14]	5 (1/1/1)	[12,14]	3 (1/1/1)	[154]
Herring gull (<i>Larus argentatus</i>)	5 (2/1/1)	[14,159]	5 (1/1/1)	[12,14]	3 (1/1/1)	[154]
Great black-backed gull (<i>Larus marinus</i>)	5 (3/3/1)	[27]	5 (3/3/3)	None identified	3 (1/1/1)	[154]
Lesser black-backed gull (<i>Larus fuscus</i>)	5 (3/3/1)	[27]	5 (3/3/3)	None identified	3 (1/1/1)	[154]
Black-legged kittiwake (<i>Rissa tridactyla</i>)	1 (3/3/3)	None identified	2 (3/3/3)	None identified	3 (1/1/1)	[154]
Glaucous gull (<i>Larus hyperboreus</i>)	2 (1/3/2)	[159]	3 (3/3/3)	None identified	3 (3/3/3)	None identified
Iceland gull (<i>Larus glaucooides</i>)	2 (3/3/3)	None identified	3 (3/3/3)	None identified	3 (3/3/3)	None identified
Little tern (<i>Sterna albifrons</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Common tern (<i>Sterna hirundo</i>)	2 (2/1/1)	[12,159]	3 (2/1/1)	[12,159]	1 (3/3/3)	None identified
Arctic tern (<i>Sterna paradisaea</i>)	2 (2/1/1)	[12]	3 (2/1/1)	[12,159]	1 (3/3/3)	None identified
Little auk (<i>Alle alle</i>)	2 (1/1/1)	[12]	1 (3/3/3)	None identified	1 (3/3/3)	None identified

Atlantic puffin (<i>Fratercula arctica</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Black guillemot (<i>Cepphus grylle</i>)	1 (3/3/3)	None identified	2 (3/3/3)	None identified	2 (1/1/1)	[154]
Common guillemot (<i>Uria aalge</i>)	2 (1/1/1)	[12]	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Razorbill (<i>Alca torda</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Rock dove (<i>Columba livia livia</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Rock pipit (<i>Anthus petrosus</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Chough (<i>Pyrrhocorax pyrrhocorax</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified
Hooded crow (<i>Corvus cornix</i>)	3 (1/1/1)	[12]	3 (3/3/3)	[12]	3 (1/1/1)	[154]
Raven (<i>Corvus corax</i>)	1 (3/3/3)	[159]	2 (3/3/3)	None identified	1 (3/3/3)	None identified
Starling (<i>Sturnus vulgaris</i>)	3 (1/1/1)	[14]	2 (1/1/1)	[14]	1 (3/3/3)	None identified
Twite (<i>Carduelis flavirostris</i>)	1 (3/3/3)	None identified	1 (3/3/3)	None identified	1 (3/3/3)	None identified

Table A4. Interaction factors J–L. Uncertainty assessments U1 (Specificity), U2 (Relevance) and U3 (Relevance) are indicated in brackets.

Species	Factor J: Use of floating structures Score	Factor J: References	Factor K: Feeding on fishery discards Score	Factor K: References	Factor L: Interaction with wind farms in flight Score	Factor L: References
Mute swan (<i>Cygnus olor</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[160]
Whooper swan (<i>Cygnus cygnus</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[160]
White-fronted goose (<i>Anser albifrons</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[161]
Greylag goose (<i>Anser anser</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[161]
Canada goose (<i>Branta canadensis</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (2/1/1)	[161]
Barnacle goose (<i>Branta leucopsis</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[161]
Brent goose (<i>Branta bernicla</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (2/1/1)	[161]
Shelduck (<i>Tadorna tadorna</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[162]
Mallard (<i>Anas platyrhynchos</i>)	2 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	3 (1/1/1)	[163]
Wigeon (<i>Anas penelope</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (2/1/1)	[162]
Teal (<i>Anas crecca</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[162]
Greater scaup (<i>Aythya marila</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/2/1)	[164]
Tufted duck (<i>Aythya fuligula</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/2/1)	[164]
Common eider (<i>Somateria mollissima</i>)	3 (1/3/1)	Personal observation (SB)	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[7]
Common scoter (<i>Melanitta nigra</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[165]
Long-tailed duck (<i>Clangula hyemalis</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[165]

Common goldeneye (<i>Bucephala clangula</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (2/2/2)	Assumed similar to Aythya species
Red-breasted merganser (<i>Mergus serrator</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	5 (1/1/1)	[165]
Red-throated diver (<i>Gavia stellata</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[165]
Black-throated diver (<i>Gavia arctica</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[165]
Great northern diver (<i>Gavia immer</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (2/1/1)	Assumed similar to other divers
Slavonian grebe (<i>Podiceps auritus</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (2/1/1)	Assumed similar to other divers
Little grebe (<i>Tachybaptus ruficollis</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (2/1/1)	Assumed similar to other divers
Northern fulmar (<i>Fulmarus glacialis</i>)	1 (3/3/3)	None identified	5 (1/1/1)	[166]	1 (1/1/1)	[165]
Sooty shearwater (<i>Puffinus griseus</i>)	1 (3/3/3)	None identified	3 (1/1/1)	[166]	1 (1/1/1)	[165]
Manx shearwater (<i>Puffinus puffinus</i>)	1 (3/3/3)	None identified	3 (1/1/1)	[166]	1 (2/3/3)	Assumed similar to Sooty shearwater
European storm-petrel (<i>Hydrobates pelagicus</i>)	1 (3/3/3)	None identified	3 (1/1/1)	[166]	1 (2/3/3)	Assumed similar to Sooty shearwater
Leach's storm-petrel (<i>Oceanodroma leucorhoa</i>)	1 (3/3/3)	None identified	3 (1/1/1)	[166]	1 (2/3/3)	Assumed similar to Sooty shearwater
Northern gannet (<i>Morus bassanus</i>)	1 (3/3/3)	None identified	5 (1/1/1)	[166]	1 (1/1/1)	[165]
Great cormorant (<i>Phalacrocorax carbo</i>)	5 (1/1/1)	[154,167]	3 (1/1/1)	[166]	5 (1/1/1)	[165]
Shag (<i>Phalacrocorax aristotelis</i>)	5 (1/1/1)	[154,167]	3 (1/1/1)	[166]	5 (1/1/1)	[165]
Grey heron (<i>Ardea cinerea</i>)	3 (1/3/1)	Personal observation (SB)	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[168]
White-tailed eagle (<i>Haliaeetus albicilla</i>)	1 (3/3/3)	None identified	2 (1/3/2)	[169]	3 (1/1/1)	[170]
Osprey (<i>Pandion haliaetus</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	3 (1/1/1)	[171]

Golden eagle (<i>Aquila chrysaetos</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	3 (1/1/1)	[172,173]
Peregrine falcon (<i>Falco peregrinus</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	3 (1/1/2)	[172]
Oystercatcher (<i>Haematopus ostralegus</i>)	3 (1/1/1)	[154]	1 (1/1/1)	Assumed based on diet	3 (1/2/1)	[170]
Ringed plover (<i>Charadrius hiaticula</i>)	3 (1/1/1)	[154]	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Grey plover (<i>Pluvialis squatarola</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Golden plover (<i>Pluvialis apricaria</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/1)	[170]
Knot (<i>Calidris canutus</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (1/1/2)	[175]
Sanderling (<i>Calidris alba</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Purple sandpiper (<i>Calidris maritima</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Turnstone (<i>Arenaria interpres</i>)	3 (1/3/1)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Dunlin (<i>Calidris alpina</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (2/1/2)	[170]
Little stint (<i>Calidris minuta</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Common sandpiper (<i>Actitis hypoleucos</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Redshank (<i>Tringa totanus</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Greenshank (<i>Tringa nebularia</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Black-tailed godwit (<i>Limosa limosa</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Bar-tailed godwit (<i>Limosa lapponica</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Curlew (<i>Numenius arquata</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]

Whimbrel (<i>Numenius phaeopus</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Grey phalarope (<i>Phalaropus fulicarius</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Red-necked phalarope (<i>Phalaropus lobatus</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	1 (3/3/3)	[174]
Great skua (<i>Catharacta skua</i>)	2 (3/3/3)	None identified	5 (1/1/1)	[166]	1 (1/1/1)	[176]
Pomarine skua (<i>Stercorarius pomarinus</i>)	1 (3/3/3)	None identified	3 (1/1/1)	[166]	1 (2/3/1)	[177]
Arctic skua (<i>Stercorarius parasiticus</i>)	1 (3/3/3)	None identified	3 (1/1/1)	[166]	1 (2/1/1)	[177]
Long-tailed skua (<i>Stercorarius longicaudus</i>)	1 (3/3/3)	None identified	3 (1/1/1)	[40]	1 (2/3/1)	[177]
Black-headed gull (<i>Chroicocephalus ridibundus</i>)	5 (1/1/1)	[154,167]	3 (1/1/1)	[166]	5 (1/1/1)	[165]
Common gull (<i>Larus canus</i>)	5 (1/1/1)	[154,167]	3 (1/1/1)	[166]	3 (1/1/1)	[165]
Herring gull (<i>Larus argentatus</i>)	5 (1/1/1)	[154,167]	5 (1/1/1)	[166]	3 (1/1/1)	[165]
Great black-backed gull (<i>Larus marinus</i>)	5 (1/1/1)	[154,167]	5 (1/1/1)	[166]	5 (1/1/1)	[165]
Lesser black-backed gull (<i>Larus fuscus</i>)	5 (1/1/1)	[154,167]	5 (1/1/1)	[166]	3 (1/1/1)	[165]
Black-legged kittiwake (<i>Rissa tridactyla</i>)	3 (1/1/1)	[154,167]	5 (1/1/1)	[166]	3 (1/1/1)	[165]
Glaucous gull (<i>Larus hyperboreus</i>)	3 (3/3/3)	None identified	3 (1/1/1)	[166]	3 (3/3/3)	Assumed similar to Herring gull
Iceland gull (<i>Larus glaucoides</i>)	3 (3/3/3)	None identified	3 (1/1/1)	[40]	3 (3/3/3)	Assumed similar to Herring gull
Little tern (<i>Sterna albifrons</i>)	1 (3/3/3)	None identified	2 (3/3/3)	Assumed based on diet	3 (3/3/3)	Assumed similar to Common tern
Common tern (<i>Sterna hirundo</i>)	3 (2/1/1)	[154,167]	2 (1/1/1)	[166]	3 (1/1/1)	[165]
Arctic tern (<i>Sterna paradisaea</i>)	3 (2/1/1)	[154,167]	2 (1/1/1)	[40]	3 (1/1/1)	[165]

Little auk (<i>Alle alle</i>)	1 (3/3/3)	None identified	2 (3/3/3)	[166]	1 (3/3/3)	[174]
Atlantic puffin (<i>Fratercula arctica</i>)	1 (3/3/3)	[154]; personal observation (SB)	2 (3/3/3)	Assumed based on diet	1 (3/3/3)	[174]
Black guillemot (<i>Cephus grylle</i>)	4 (1/1/1)	None identified	2 (1/1/1)	[178]	1 (3/3/3)	[174]
Common guillemot (<i>Uria aalge</i>)	1 (3/3/3)	None identified	2 (1/1/3)	[179]	1 (1/1/1)	[165]
Razorbill (<i>Alca torda</i>)	1 (3/3/3)	None identified	2 (1/1/1)	[40]	1 (1/1/1)	[165]
Rock dove (<i>Columba livia livia</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	3 (2/1/1)	[163]
Rock pipit (<i>Anthus petrosus</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	3 (3/3/3)	[163]
Chough (<i>Pyrrhocorax pyrrhocorax</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	3 (3/3/3)	[163]
Hooded crow (<i>Corvus cornix</i>)	3 (1/1/1)	[154]	1 (1/1/1)	Assumed based on diet	3 (3/3/3)	[163]
Raven (<i>Corvus corax</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	3 (3/3/3)	[163]
Starling (<i>Sturnus vulgaris</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	3 (1/1/1)	[163]
Twite (<i>Carduelis flavirostris</i>)	1 (3/3/3)	None identified	1 (1/1/1)	Assumed based on diet	3 (3/3/3)	[163]

Table A5. Sensitivity Index summary. Final values were calculated based on Factors A-L as described in Methods (Final uncertainty values in brackets).

Species	A	B	C	D	E	F	G	H	I	J	K	L	FINAL SI VALUE
Mute swan (<i>Cygnus olor</i>)	3	2	3	5	3	1	1	1	1	1	1	1	8.0 (64)
Whooper swan (<i>Cygnus cygnus</i>)	3	3	4	5	3	1	1	1	1	1	1	1	10.0 (65)
White-fronted goose (<i>Anser albifrons</i>)	2	3	5	4	2	1	1	1	1	1	1	1	7.8 (68)
Greylag goose (<i>Anser anser</i>)	5	3	4	4	3	1	1	1	1	1	1	1	10.7 (66)
Canada goose (<i>Branta canadensis</i>)	5	3	1	4	3	1	1	1	1	1	1	1	8.0(66)
Barnacle goose (<i>Branta leucopsis</i>)	5	3	4	4	3	1	1	1	1	1	1	1	10.7 (65)
Brent goose (<i>Branta bernicla</i>)	2	3	4	4	3	1	1	1	1	1	1	1	8.0 (69)
Shelduck (<i>Tadorna tadorna</i>)	3	1	4	3	4	1	1	1	1	1	1	1	7.1 (66)
Mallard (<i>Anas platyrhynchos</i>)	2	1	4	3	3	1	1	2	3	2	1	3	10.9 (59)
Wigeon (<i>Anas penelope</i>)	3	2	4	3	4	1	1	1	1	1	1	1	8.0 (67)
Teal (<i>Anas crecca</i>)	3	2	4	2	4	1	1	1	1	1	1	1	7.0 (67)
Greater scaup (<i>Aythya marila</i>)	2	2	5	3	5	1	1	1	5	1	1	1	12.0 (59)
Tufted duck (<i>Aythya fuligula</i>)	2	1	2	3	5	1	1	1	1	1	1	1	5.0 (69)
Common eider (<i>Somateria mollissima</i>)	2	3	4	4	3	5	1	1	5	3	1	1	18.0 (55)
Common scoter (<i>Melanitta nigra</i>)	2	2	5	3	3	5	1	1	5	1	1	1	14.7 (60)
Long-tailed duck (<i>Clangula hyemalis</i>)	2	2	5	3	3	5	1	1	5	1	1	1	14.7 (64)
Common goldeneye (<i>Bucephala clangula</i>)	2	1	4	3	3	1	1	1	5	1	1	1	7.3 (65)
Red-breasted merganser (<i>Mergus serrator</i>)	3	2	1	4	2	1	2	1	1	1	1	5	10.5 (56)
Red-throated diver (<i>Gavia stellata</i>)	4	4	2	5	1	5	1	1	1	1	1	1	12.2 (59)
Black-throated diver (<i>Gavia arctica</i>)	3	4	4	5	1	5	2	1	1	1	1	1	16.8 (59)
Great northern diver (<i>Gavia immer</i>)	5	4	4	5	1	5	2	1	1	1	1	1	19.9 (59)
Slavonian grebe (<i>Podiceps auritus</i>)	3	4	5	4	2	5	1	1	1	1	1	1	14.7 (68)
Little grebe (<i>Tachybaptus ruficollis</i>)	3	1	2	4	1	1	1	1	1	1	1	1	4.0 (65)
Northern fulmar (<i>Fulmarus glacialis</i>)	4	5	4	3	4	3	2	1	1	1	5	1	22.9 (57)
Sooty shearwater (<i>Puffinus griseus</i>)	1	5	2	3	3	3	1	1	1	1	3	1	19.8 (65)
Manx shearwater (<i>Puffinus puffinus</i>)	5	5	4	3	3	3	2	1	1	1	3	1	9.3 (62)
European storm-petrel (<i>Hydrobates pelagicus</i>)	3	5	4	1	4	3	3	1	1	1	3	1	17.8 (63)
Leach's storm-petrel (<i>Oceanodroma leucorhoa</i>)	2	5	4	1	4	3	1	1	1	1	3	1	11.4 (70)
Northern gannet (<i>Morus bassanus</i>)	5	5	4	3	2	3	2	1	1	1	5	1	19.7 (54)
Great cormorant (<i>Phalacrocorax carbo</i>)	3	3	1	4	1	5	5	5	5	1	5	3	35.0 (46)
Shag (<i>Phalacrocorax aristotelis</i>)	5	4	5	3	1	5	5	5	5	1	5	3	63.0 (44)
Grey heron (<i>Ardea cinerea</i>)	3	4	1	4	4	1	5	4	1	3	1	1	23.3 (48)
White-tailed eagle (<i>Haliaeetus albicilla</i>)	1	4	5	4	1	1	1	1	1	1	2	3	10.6 (70)
Osprey (<i>Pandion haliaetus</i>)	2	4	4	4	3	1	3	3	1	1	1	3	22.2 (57)
Golden eagle (<i>Aquila chrysaetos</i>)	3	4	2	4	1	1	1	1	1	1	1	3	9.0 (67)
Peregrine falcon (<i>Falco peregrinus</i>)	3	4	1	3	3	1	1	1	1	1	1	3	9.3 (63)
Oystercatcher (<i>Haematopus ostralegus</i>)	5	4	4	2	3	1	1	1	3	3	1	3	15.9 (54)
Ringed plover (<i>Charadrius hiaticula</i>)	3	1	5	2	3	1	1	1	3	3	1	1	8.0 (59)
Grey plover (<i>Pluvialis squatarola</i>)	2	3	4	2	4	1	1	1	1	1	1	1	7.0 (73)
Golden plover (<i>Pluvialis apricaria</i>)	4	4	2	2	2	1	1	1	1	1	1	1	5.6 (68)
Knot (<i>Calidris canutus</i>)	3	3	4	2	4	1	1	1	1	1	1	1	7.8 (69)
Sanderling (<i>Calidris alba</i>)	4	3	3	2	3	1	1	1	1	1	1	1	6.7 (75)
Purple sandpiper (<i>Calidris maritima</i>)	5	3	4	2	4	1	1	1	1	1	1	1	9.3 (71)
Turnstone (<i>Arenaria interpres</i>)	5	3	4	2	1	1	1	1	1	3	1	1	6.2 (69)
Dunlin (<i>Calidris alpina</i>)	2	4	4	2	3	1	1	1	1	1	1	1	6.7 (69)
Little stint (<i>Calidris minuta</i>)	4	3	1	2	3	1	1	1	1	1	1	1	5.3 (79)
Common sandpiper (<i>Actitis hypoleucos</i>)	3	3	4	2	4	1	1	1	1	1	1	1	7.8 (72)
Redshank (<i>Tringa totanus</i>)	5	4	4	2	4	1	1	1	1	1	1	1	10.1 (71)
Greenshank (<i>Tringa nebularia</i>)	2	4	3	2	3	1	1	1	1	1	1	1	6.0 (79)
Black-tailed godwit (<i>Limosa limosa</i>)	1	3	5	2	3	1	1	1	1	1	1	1	6.0 (74)

Bar-tailed godwit (<i>Limosa lapponica</i>)	4 4 4 2 3 1 1 1 1 1 1 1	8.0 (74)
Curlew (<i>Numenius arquata</i>)	5 4 5 2 2 1 1 1 1 1 1 1	7.8 (72)
Whimbrel (<i>Numenius phaeopus</i>)	1 3 5 2 3 1 1 1 1 1 1 1	6.0 (74)
Grey phalarope (<i>Phalaropus fulicarius</i>)	2 3 1 2 3 3 1 1 1 1 1 1	5.3 (83)
Red-necked phalarope (<i>Phalaropus lobatus</i>)	1 3 5 2 3 3 1 1 1 1 1 1	8.0 (79)
Great skua (<i>Catharacta skua</i>)	5 4 4 1 1 5 1 2 1 2 5 1	19.3 (62)
Pomarine skua (<i>Stercorarius pomarinus</i>)	3 4 1 1 1 3 1 1 1 1 3 1	5.2 (74)
Arctic skua (<i>Stercorarius parasiticus</i>)	3 4 5 1 1 3 1 1 1 1 3 1	7.8 (64)
Long-tailed skua (<i>Stercorarius longicaudus</i>)	2 4 1 1 1 3 1 1 1 1 3 1	4.5 (74)
Black-headed gull (<i>Chroicocephalus ridibundus</i>)	2 4 4 1 2 1 2 4 3 5 3 5	16.3 (46)
Common gull (<i>Larus canus</i>)	3 4 4 1 3 5 2 5 3 5 3 3	37.6 (40)
Herring gull (<i>Larus argentatus</i>)	3 4 5 2 3 5 5 5 3 5 5 3	57.8 (39)
Great black-backed gull (<i>Larus marinus</i>)	4 4 4 2 3 5 5 5 3 5 5 5	64.4 (49)
Lesser black-backed gull (<i>Larus fuscus</i>)	4 4 4 2 3 5 5 5 3 5 5 3	57.8 (49)
Black-legged kittiwake (<i>Rissa tridactyla</i>)	4 4 5 1 3 3 1 2 3 3 5 3	24.4 (50)
Glaucous gull (<i>Larus hyperboreus</i>)	1 4 4 2 3 5 2 3 3 3 3 3	27.5 (77)
Iceland gull (<i>Larus glaucoides</i>)	1 4 4 1 3 5 2 3 3 3 3 3	24.8 (83)
Little tern (<i>Sterna albifrons</i>)	2 4 4 1 1 5 1 1 1 1 2 3	12.3 (76)
Common tern (<i>Sterna hirundo</i>)	2 4 4 1 1 5 2 3 1 3 2 3	19.4 (49)
Arctic tern (<i>Sterna paradisaea</i>)	4 5 4 1 1 5 2 3 1 3 2 3	25.3 (49)
Little auk (<i>Alle alle</i>)	1 5 1 3 1 3 2 1 1 1 2 1	7.3 (74)
Atlantic puffin (<i>Fratercula arctica</i>)	4 5 5 3 1 3 1 1 1 1 2 1	11.8 (75)
Black guillemot (<i>Cepphus grylle</i>)	4 5 4 3 1 5 1 2 2 4 2 1	21.7 (61)
Common guillemot (<i>Uria aalge</i>)	5 5 4 4 2 3 2 1 1 1 2 1	18.7 (59)
Razorbill (<i>Alca torda</i>)	4 5 4 4 1 3 1 1 1 1 2 1	12.5 (63)
Rock dove (<i>Columba livia livia</i>)	1 1 1 2 1 1 1 1 1 1 1 3	2.0 (67)
Rock pipit (<i>Anthus petrosus</i>)	5 4 1 2 1 1 1 1 1 1 1 3	6.7 (74)
Chough (<i>Pyrrhocorax pyrrhocorax</i>)	1 4 2 1 1 1 1 1 1 1 1 3	3.5 (73)
Hooded crow (<i>Corvus cornix</i>)	3 4 1 2 1 1 3 3 3 3 1 3	10.1 (55)
Raven (<i>Corvus corax</i>)	2 3 1 2 1 1 1 2 1 1 1 3	4.7 (71)
Starling (<i>Sturnus vulgaris</i>)	3 2 5 2 1 1 3 2 1 1 1 3	10.0 (54)
Twite (<i>Carduelis flavirostris</i>)	4 3 5 2 1 1 1 1 1 1 1 3	8.0 (71)

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