

Appendix E: Habitat and Species Data informing the Risk Assessment

This Appendix is provided in support to the following report:

Marine Planning Consultants Ltd. (2014). Lyme Bay Fisheries and Conservation Reserve: Integrated Fisheries Management Plan. A report produced for the Lyme Bay Fisheries and Conservation Reserve Working Group, UK.

The report, submitted 18/09/2014, addresses comments made by the wider Lyme Bay Fisheries and Conservation Reserve Working Group at a Workshop 09/09/2014.

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Source of data

Table E1. Source of data for each feature type

| Sector | Information Type | Source Project | Source Organisation | Data Type | Comment |
|------------------|--------------------------------------------------------|-------------------------------------------------|----------------------------------------------------------|-----------------------------|------------------------------------------------------------------------|
| BENTHIC HABITATS | Biotope model | Various | Devon Wildlife Trust (Devon Biodiversity Records Centre) | Full coverage interpolation | Map provided in report |
| BENTHIC HABITATS | Reef map | cSAC characterisation | Natural England / Cefas | GIS model | Map provided in report |
| BENTHIC SPECIES | Diving observations, benthic grabs and video transects | Various | Devon Wildlife Trust (Devon Biodiversity Records Centre) | Point data | Map and table of species of conservation importance provided in report |
| BENTHIC SPECIES | Various | Various | NBN | Point data | Map and table of species of conservation importance provided in report |
| BENTHIC SPECIES | Diving observations | Various | Seasearch | Point data | Map and table of species of conservation importance provided in report |
| BENTHIC SPECIES | Video transects | Impacts of scallop dredging on epibenthic fauna | Bangor University / NERC | Point data | Table of species of conservation importance provided in report |
| FISH | Fish Distribution | Nursery and spawning areas | Cefas (Ellis, <i>et al.</i> , 2012) | Gridded | Map and table of species of conservation importance provided in report |
| FISH | Fish Distribution | Various | Devon Wildlife Trust (Devon Biodiversity Records Centre) | Point data | Table of species of conservation importance provided in report |
| FISH | Fish Distribution | N/A | MARINE-Life | Point data | Not provided in time to be included in report (but will be assessed) |
| FISH | Fish Distribution | NBN | JNCC | Point data | Table of species of conservation importance provided in report |
| FISH | Fish Distribution | Various | Devon Wildlife Trust (Devon Biodiversity Records Centre) | Point data | Table of species of conservation importance provided in report |

| Sector | Information Type | Source Project | Source Organisation | Data Type | Comment |
|----------|-------------------------------------------------|------------------------------------------------------------------------|----------------------------------------------------------|------------|------------------------------------------------------------------------|
| CETACEAN | Cetacean sightings | N/A | MARINE-Life | Point data | Not provided in time to be included in report (but will be assessed) |
| CETACEAN | Cetacean sightings | SCANS-II | University of St Andrews | Point data | Not in AOI |
| TURTLES | Turtle sightings | Various | Devon Wildlife Trust (Devon Biodiversity Records Centre) | Point data | Table of species of conservation importance provided in report |
| TURTLES | Turtle sightings | N/A | MARINE-Life | Point data | Not provided in time to be included in report (but will be assessed) |
| TURTLES | Turtle sightings | N/A | NBN Gateway | Point data | Map and table of species of conservation importance provided in report |
| BIRDS | Bird sightings | N/A | MARINE-Life | Point data | Not provided in time to be included in report (but will be assessed) |
| BIRDS | Bird breeding, wintering and moulting sightings | N/A | JNCC | Point data | Map and table of species of conservation importance provided in report |
| BIRDS | Bird sightings | European Seabirds at Sea (ESAS) and Seabird Monitoring Programme (SMP) | JNCC | Point data | Map and table of species of conservation importance provided in report |

Species Inventory & Conservation Status

All species identified

A species inventory that lists all species identified in the Lyme Bay AOI is available in Excel spreadsheet format: please request the Lyme Bay species inventory spreadsheet. This table details conservation status; species and habitats record data source; characteristics, e.g. habitat and feeding; and detail of records for spatial evidence in Lyme Bay, e.g. vintage, rocky reef association. Please request the Lyme Bay conservation tables.

Species of conservation importance

The summary table below (Table E1) shows all species identified in the Lyme Bay AOI that have a conservation status, with each type shown. Justification is given for those that were selected for the risk assessment.

Table 1E shows a dark blue highlight where the species / habitat was selected for assessment in the project and assigned 'Tier 1'. Light blue highlights also indicate species / habitat selected although these have only a few records and / or are old records. Due to their significant conservation status, e.g. to protect against rarity, they have been included in this Appendix and are discussed in the main report; however these are not of priority in the assessment and are therefore assigned 'Tier 2', and may be used to help inform future monitoring.

Note the Latin name is the WoRMS¹ software accepted name; and species names are not in italics due to the original spreadsheet format.

¹ <http://www.marinespecies.org/>

Table E2. Species data inventory: species of conservation importance

| Species Name / Group | | | Assessment | | | |
|----------------------|-----------------------------------|-------------------------|-----------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------|
| Species Group | Latin Name | Common Name | Conservation Status | Relevance | Project Model Assessment Unit | Priority |
| Benthic / Epibenthic | <i>Sabellaria alveolata</i> | Honeycomb Worm | Habitats Directive, English NERC List | The majority of observations are recent (last 20 years) . There are a high number of observations of the species (46) most of which report high abundances which could be indicative of reef (S, A, or C) - also observations are likely to have been of crust or reef since anything smaller is less likely to be encountered. Although <i>S. alveolata</i> observations were exclusively associated with the rocky reef there is potential for it to occur outside of the protected rocky reef area. Whilst it is not certain whether the records indicate reef, if they do then the habitat is protected in its own right it should be treated as a separate habitat. However due to the lack of evidence as to whether it is or is not reef forming in Lyme Bay, and that it is in an area that is widely surveyed due to conservation interest yet has still not been officially observed, this can only be included as a Tier 2 habitat - as a precautionary approach. | SABELLARIA | Tier 2 |
| Benthic / Epibenthic | <i>Sabellaria spinulosa</i> | Ross Worm | Habitats Directive, OSPAR (2008), English NERC List | The majority of observations are recent (last 20 years) and there are a high number of observations (32). Although only a small number of the observations were of high abundances this may in part be a reflection of fishing pressures already being exerted on this area and there may therefore be potential for more reef habitats to develop in the future. Although many of the <i>S. spinulosa</i> observations were associated with the rocky reef there is potential for this habitat to occur outside of the protected rocky reef area. Whilst it is not certain whether the records indicate reef, if they do then the habitat is protected in its own right it should be treated as a separate habitat. However due to the lack of evidence as to whether it is or is not reef forming in Lyme Bay, and that it is in an area that is widely surveyed due to conservation interest yet has still not been officially observed, this can only be included as a Tier 2 habitat - as a precautionary approach. Note that <i>Sabellaria sinulosa</i> is less common in reef form than <i>Sabellaria alveolata</i> . | SABELLARIA | Tier 2 |
| Benthic / Epibenthic | <i>Schizobrachiella sanguinea</i> | A bryozoan | UK Cons. Status (Rare & Scarce) | A small number of recent records were associated exclusively with the protected rocky reef. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. | REEF | Tier 2 |
| Benthic / Epibenthic | <i>Pycnoclavella aurilucens</i> | Orange Lights Seasquirt | UK Cons. Status (Rare & Scarce) | A small number of recent records were strongly associated with the protected rocky reef. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. | REEF | Tier 2 |
| Benthic / Epibenthic | <i>Phallusia mammillata</i> | A sea squirt | UK Cons. Status (Rare & Scarce) | A very high number (>400) of recent (last 20 years) high abundance records (S,A or C) the majority of which were associated with the protected rocky reef. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. | REEF | Tier 1 |
| Benthic / Epibenthic | <i>Aiptasia mutabilis</i> | Trumpet Anemone | UK Cons. Status (Rare & Scarce) | A very high number (>200) of recent (last 20 years) high abundance records (S,A or C) the majority of which were associated with the protected rocky reef. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. | REEF | Tier 1 |

| Species Name / Group | | | Assessment | | | |
|----------------------|---------------------------------------------|-----------------------|------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------|
| Species Group | Latin Name | Common Name | Conservation Status | Relevance | Project Model Assessment Unit | Priority |
| Benthic / Epibenthic | <i>Amphianthus dohrnii</i> | Sea-fan Anemone | English NERC List, UK Cons. Status (Rare & Scarce) | Only a single record of this very tiny species (which is likely to be overlooked by most sampling techniques). Species is exclusively associated with the protected rocky reef habitat and more specifically with the sea fans and will therefore be assessed under the umbrella habitat of rocky reef and does not requires additional consideration. | REEF & PINK SEAFAN | Tier 2 |
| Benthic / Epibenthic | <i>Eunicella verrucosa</i> | Pink Sea Fan | OSPAR (2008), IUCN Red List, English NERC List, Wildlife & Countryside Act 1981, UK Cons. Status (Rare & Scarce) | There are a very large number of records of this species (254) although this is likely to be in-part due to sampling biases, since a number of the surveys have been specifically targeting this species, and also its conspicuous nature. The majority of records are recent and indicate that this species is strongly associated with the protected rocky reef. However a relatively large number (53) of observations of this species in non-reef areas indicates that there is a significant seafan population associated with other habitats within the AOI. Given the high conservation status of this species (listed as vulnerable on the IUCN Red List as well as T&D Ospar list) the sensitivity of this species will be assessed in its own right as well as under the umbrella of the rocky reef. | REEF & PINK SEAFAN | Tier 1 |
| Benthic / Epibenthic | <i>Caryophyllia (Caryophyllia) inornata</i> | Southern Cup Coral | OSPAR (2008), UK Cons. Status (Rare & Scarce) | A high number (32) of recent observations strongly associated with the protected rocky reefs some of which indicate that this species is common or frequent. Although there are records of this species outside the protected rocky reef feature, this species is only found on rock which is not mapped elsewhere in the AOI. Therefore these records are likely to indicate the presence of very small rocky features and/or areas of rocky reef that have not yet been mapped. This species will therefore be assessed under the umbrella habitat of rocky reefs and the locations of observations outwith the reef will be provided to the IFCA's to inform future survey efforts. | REEF | Tier 1 |
| Benthic / Epibenthic | <i>Caryophyllia (Caryophyllia) smithii</i> | Devonshire Cup Coral | OSPAR (2008) | A very high number (233) of recent observations strongly associated with the protected rocky reefs most of which indicate that this species is occasional or rare. Although there are records of this species outside the protected rocky reef feature, this species is predominantly only found on rock which is not mapped elsewhere in the AOI. Therefore these records are likely to indicate the presence of very small rocky features and/or areas of rocky reef that have not yet been mapped. This species will therefore be assessed under the umbrella habitat of rocky reefs and the locations of observations outwith the reef will be provided to the IFCA's to inform future survey efforts. | REEF | Tier 1 |
| Benthic / Epibenthic | <i>Hoplangia durotrix</i> | Weymouth carpet Coral | OSPAR (2008), UK Cons. Status (Rare & Scarce) | A small number (7) of recent observations strongly associated with the protected rocky reefs most of which indicate that this species is rare. Although there are records of this species outside the protected rocky reef feature, this species is only found on rock which is not mapped elsewhere in the AOI. Therefore these records are likely to indicate the presence of very small rocky features and/or areas of rocky reef that have not yet been mapped. This species will therefore be assessed under the umbrella habitat of rocky reefs and the locations of observations outwith the reef will be provided to the IFCA's to inform future survey efforts. | REEF | Tier 2 |

| Species Name / Group | | | Assessment | | | |
|----------------------|----------------------------------|-------------------|------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------|
| Species Group | Latin Name | Common Name | Conservation Status | Relevance | Project Model Assessment Unit | Priority |
| Benthic / Epibenthic | <i>Leptosammia pruvoti</i> | Sunset Cup Coral | OSPAR (2008), English NERC List, UK Cons. Status (Rare & Scarce) | A moderate number (22) of recent observations strongly associated with the protected rocky reefs most of which indicate that this species is abundant. Although there are records of this species outside the protected rocky reef feature, this species is only found on rock which is not mapped elsewhere in the AOI. Therefore these records are likely to indicate the presence of very small rocky features and/or areas of rocky reef that have not yet been mapped. This species will therefore be assessed under the umbrella habitat of rocky reefs and the locations of observations outwith the reef will be provided to the IFCA's to inform future survey efforts. | REEF | Tier 1 |
| Benthic / Epibenthic | <i>Aglaophenia kirchenpaueri</i> | A hydroid | UK Cons. Status (Rare & Scarce) | A single recent observation has been made of this species within the AOI. Although this record does not fall within the protected rocky reef area it is closely adjacent (50m). As this observation was made by a diver the positional accuracy of this observation is cannot be assured. This species occurs on rock and therefore it is thought highly probable that this species is associated with the rocky reef and it will be assessed as such. The position will also be provided to the IFCA's as a focus for future survey work to further refine the reef boundaries and / or identify any other areas of rocky habitat. | REEF | Tier 2 |
| Benthic / Epibenthic | <i>Echinus esculentus</i> | Edible Sea Urchin | IUCN Red List | A small number of recent records indicate that this species is exclusively associated with the protected rocky reef habitats. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. | REEF | Tier 2 |
| Benthic / Epibenthic | <i>Paracentrotus lividus</i> | Purple Sea Urchin | UK Cons. Status (Rare & Scarce) | A small number of recent records indicate that this species is exclusively associated with the protected rocky reef habitats. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. | REEF | Tier 2 |
| Benthic / Epibenthic | <i>Ophiopsila aranea</i> | A brittlestar | UK Cons. Status (Rare & Scarce) | A small number of recent records indicate that this species is exclusively associated with the protected rocky reef habitats. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. | REEF | Tier 2 |
| Benthic / Epibenthic | <i>Pholadidea loscombiana</i> | Paper Piddock | UK Cons. Status (Rare & Scarce) | A small number of recent records indicate that this species is strongly associated with the protected rocky reef habitats. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. | REEF | Tier 2 |
| Benthic / Epibenthic | <i>Modiolus modiolus</i> | Horse Mussel | Habitats Directive, English NERC List | Very few records with low abundance, all of individual mussels. No evidence of beds that would qualify for protection and these are very unlikely to occur this far south. Therefore this species does not require any further consideration in the sensitivity modelling. | Excluded | N/A |
| Benthic / Epibenthic | <i>Mytilus edulis</i> | Blue Mussel | Habitats Directive, OSPAR (2008), English NERC List | A very high number of records (104) some of which may be indicative of the presence of mussel beds (A/C/F) which could qualify for protection. Mytilus beds are known to occur in the wider Lyme Bay. The majority of the records (~90%) are old (>20years) although the most recent record was made in 2004. The spatial representation of this habitat feature is not likely to be overly reliable and the locations of observations (particularly those that are recorded as A/C/F) will be supplied to the IFCA's as potential targets for future survey work. As there is a lack of evidence as to whether it is or is not forming mussel beds in Lyme Bay, and that it is in an area that is widely surveyed due to conservation interest yet has still not been officially observed, this can only be included as a Tier 2 habitat - as a precautionary approach - to reflect its conservation status and association not only with the rocky reef but also beyond this delineated area (25%). | MYTILUS | Tier 2 |

| Species Name / Group | | | Assessment | | | |
|----------------------|-----------------------------|----------------------------------|---------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------|
| Species Group | Latin Name | Common Name | Conservation Status | Relevance | Project Model Assessment Unit | Priority |
| Benthic / Epibenthic | <i>Ostrea edulis</i> | Native oyster | OSPAR (2008), English NERC List | Although only a small number of observations were made of this species (6) over five separate years up to 2004, it is relatively cryptic and could easily be overlooked by video and diver surveys. There is a partial association with the protected rocky reefs but given the high conservation status of this species (as both a species and as a habitat where it forms beds) it will be assessed in its own right, though as Tier 2 assessment. | NATIVE OYSTER | Tier 2 |
| Benthic / Epibenthic | <i>Arctica islandica</i> | Icelandic Cyprine / Ocean Quahog | OSPAR (2008) | Although only a small number of observations were made of this species (4) it could easily be overlooked by video and diver surveys as it is usually buried or partially buried. Given the high conservation status of this species and its longevity, it will be assessed in its own right. | OCEAN QUAHOG | Tier 2 |
| Benthic / Epibenthic | <i>Nucella lapillus</i> | Dog Whelk | OSPAR (2008) | A high number of records, some of which are recent, were strongly associated with the protected rocky reef. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. Geographic positions of records from outside the reef will be supplied to the IFCA as potential targets for future survey efforts. | REEF | Tier 1 |
| Benthic / Epibenthic | <i>Trapania pallida</i> | A sea slug | UK Cons. Status (Rare & Scarce) | A small number of recent records were strongly associated with the protected rocky reef. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. Geographic positions of records from outside the reef will be supplied to the IFCA as potential targets for future survey efforts. | REEF | Tier 2 |
| Benthic / Epibenthic | <i>Tritonia nilsodhneri</i> | A sea slug | UK Cons. Status (Rare & Scarce) | A large number of recent records were strongly associated with the protected rocky reef. This species is commensurate with the Pink Seafan and will therefore be assessed under the umbrella Pink Seafan and does not require additional consideration. | PINK SEAFAN | Tier 1 |
| Benthic / Epibenthic | <i>Dysidea pallescens</i> | A sponge | UK Cons. Status (Rare & Scarce) | A small number of recent records were strongly associated with the protected rocky reef. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. Geographic positions of records from outside the reef will be supplied to the IFCA as potential targets for future survey efforts. | REEF | Tier 2 |
| Benthic / Epibenthic | <i>Adreus fascicularis</i> | Branched yellow sponge | UK Cons. Status (Rare & Scarce) | A small number of recent records were strongly associated with the protected rocky reef. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. Geographic positions of records from outside the reef will be supplied to the IFCA as potential targets for future survey efforts. | REEF | Tier 2 |
| Benthic / Epibenthic | <i>Axinella damicornis</i> | A sponge | UK Cons. Status (Rare & Scarce) | A small number of recent records were strongly associated with the protected rocky reef. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. Geographic positions of records from outside the reef will be supplied to the IFCA as potential targets for future survey efforts. | REEF | Tier 2 |
| Benthic / Epibenthic | <i>Tethyspira spinosa</i> | Pork scratching sponge | UK Cons. Status (Rare & Scarce) | A small number of recent records were strongly associated with the protected rocky reef. This species will therefore be assessed under the umbrella habitat of the rocky reef and does not require additional consideration. Geographic positions of records from outside the reef will be supplied to the IFCA as potential targets for future survey efforts. | REEF | Tier 2 |

| Species Name / Group | | | Assessment | | | |
|----------------------|--------------------------------|---------------|--------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------|
| Species Group | Latin Name | Common Name | Conservation Status | Relevance | Project Model Assessment Unit | Priority |
| Algae & lichen | <i>Zanardinia typus</i> | Penny Weed | UK Cons. Status (Rare & Scarce) | A small number of recent records, some of which are associated with the protected rocky reef. Although there are some records outwith the rocky reef, this species is usually found on rock and hence, the additional observations may represent isolated rock outcrops or areas of rocky reef that have not yet been accurately mapped. As these observations were made by divers it is also possible that there is some inaccuracy in the positioning. Therefore this species will be included in the sensitivity assessment under the umbrella of the rocky reef habitat and the coordinates of observations outwith the reef will be provided to the IFCAs as a potential target for future survey work. | REEF | Tier 2 |
| Algae & lichen | <i>Padina pavonica</i> | Peacocks Tail | English NERC List, UK Cons. Status (Rare & Scarce) | A small number of recent records all of which are associated with the protected rocky reef. Therefore this species will be included in the sensitivity assessment under the umbrella of the rocky reef habitat and no further consideration is required. | REEF | Tier 2 |
| Algae & lichen | <i>Lithothamnion</i> | Maerl | Habitats Directive, OSPAR (2008), English NERC List, UK Cons. Status (Rare & Scarce) | A small number of records indicate that Lithothamnion is abundant at some locations in the AOI indicating that beds may be present. Whilst calcareous algae have the capacity to form maerl deposits, the encrusting forms are more likely to be found on boulders and stones, rather than the flattened leaf-like thalli that detach and accumulate to form a maerl habitat. Therefore presence of a potential maerl species such as Lithothamnion or Lithophyllum does not necessarily indicate areas of 'maerl'. However as this species is protected as both a habitat and a species it will be included in the sensitivity assessment as Maerl. All records are point records at present and hence the locations will be provided to the IFCAs as a potential target for future survey work. | MAERL | Tier 2 |
| Algae & lichen | <i>Phymatolithon calcareum</i> | Maerl | Habitats Directive, OSPAR (2008), English NERC List | A small number of records indicate that Phymatolithon calcareum are abundant at some locations in the AOI indicating that beds may be present. As this species is protected as both a habitat and a species it will be included in the sensitivity assessment as Maerl. All records are point records at present and hence the locations will be provided to the IFCAs as a potential target for future survey work. | MAERL | Tier 2 |
| Fish | <i>Anguilla anguilla</i> | European Eel | OSPAR (2008), EC-CITES, IUCN Red List, English NERC List | Only one record of the European Eel exists in the AOI and this record is 17 years old. The data available were not from targeted fisheries surveys and hence the abundance of fish species is likely to be dramatically underrepresented; however the fisheries catch data only report Conger Eels. Given the high conservation status and unusual life history of this species it will be assessed in the sensitivity modelling at the species level - though at Tier 2 due to the single / old record - but with the precautionary approach. | EUROPEAN EEL | Tier 2 |
| Fish | <i>Gadus morhua</i> | Atlantic Cod | OSPAR (2008), IUCN Red List, English NERC List | Although there are only 15 records (1994 to 2004) it is likely that this species is dramatically underrepresented in the spatial data types available. In support, the fishery landings data confirms presence of the species within the AOI (ICES rectangles 30E6 and 30E7). This species will therefore be included at the species level. | COD | Tier 1 |
| Fish | <i>Merlangius merlangus</i> | Whiting | English NERC List, | Although there are only a small number of records (1 from 2003) it is likely that this species is dramatically underrepresented given the data types available. In support, the fishery landings data confirms presence of the species within the AOI (ICES rectangles 30E6 and 30E7). This species will therefore be included at the species level. | WHITING | Tier 1 |

| Species Name / Group | | | Assessment | | | |
|----------------------|-------------------------------|----------------|------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------|
| Species Group | Latin Name | Common Name | Conservation Status | Relevance | Project Model Assessment Unit | Priority |
| Fish | <i>Molva molva</i> | Ling | English NERC List | Although there are only a small number of records (4 from 1998-2009) it is likely that this species is dramatically underrepresented given the data types available. In support, the fishery landings data confirms presence of the species within the AOI (ICES rectangles 30E6 and 30E7); however this is very small, 25kg 2002-2013, albeit only recording individuals >63cm MLS so not juveniles etc. This species will therefore be included at the species level - though at Tier 2. | LING | Tier 2 |
| Fish | <i>Lophius piscatorius</i> | Angler | English NERC List | Although there are only a small number of records (2 from 2007) it is likely that this species is dramatically underrepresented given the data types available. In support, the fishery landings data confirms presence of the species within the AOI (ICES rectangles 30E6 and 30E7). This species will therefore be included at the species level. | ANGLERFISH | Tier 2 |
| Fish | <i>Pomatoschistus minutus</i> | Sand Goby | Bern Convention | Although this species is strongly associated with the protected rocky reef there is a high chance that it will occur elsewhere in the AOI and this association may in-part be due to sampling biases with many of the surveys being focussed on the reef habitats (20 of 22 records on reef, 1994 - 2004). Given the high conservation status of this species and its importance in marine food webs this species will be assessed in its own right. However, the fishery landings data does not confirm presence of the species within the AOI - and so it is included at Tier 2. | SAND GOBY | Tier 2 |
| Fish | <i>Pleuronectes platessa</i> | Plaice | IUCN Red List, English NERC List | Although there are only a small number of records (3 from 1998-2002) it is likely that this species is dramatically underrepresented given the data types available. In support, the fishery landings data confirms presence of the species within the AOI (ICES rectangles 30E6 and 30E7). This species will therefore be included at the species level. | PLAICE | Tier 1 |
| Fish | <i>Solea solea</i> | Sole | English NERC List | Although there are only a small number of records (9 from 1994-2004) it is likely that this species is dramatically underrepresented given the data types available. In support, the fishery landings data confirms presence of the species within the AOI (ICES rectangles 30E6 and 30E7). This species will therefore be included at the species level. | SOLE | Tier 1 |
| Fish | <i>Prionace glauca</i> | Blue Shark | IUCN Red List, English NERC List | Highly transient species unlikely to be strongly associated with any one habitat within the AOI therefore this species will be assessed under the assessment unit of Sharks. However only one record (2012) so Tier 2. | SHARKS | Tier 2 |
| Fish | <i>Scyliorhinus stellaris</i> | Nursehound | IUCN Red List | Highly transient species unlikely to be strongly associated with any one habitat within the AOI therefore this species will be assessed under the assessment unit of dogfish. 4 records 2006-2011, though not supported by fishery landings data. | DOGFISH | Tier 2 |
| Fish | <i>Alopias vulpinus</i> | Thresher Shark | IUCN Red List | Highly transient species unlikely to be strongly associated with any one habitat within the AOI therefore this species will be assessed under the assessment unit of Sharks. However only one record (2010) so Tier 2. | SHARKS | Tier 2 |
| Fish | <i>Cetorhinus maximus</i> | Basking shark | Bern Convention, Bonn Convention, OSPAR (2008), EC-CITES , IUCN Red List, English NERC List, Wildlife & Countryside Act 1981 | Highly transient species unlikely to be strongly associated with any one habitat within the AOI . Very different life history to the other shark species recorded in this area therefore this species will be assessed at the species level. 8 records 1999-2011. | BASKING SHARK | Tier 1 |
| Fish | <i>Raja clavata</i> | Thornback Ray | OSPAR (2008), IUCN Red List | Although there is only record (2003) it is likely that this species is dramatically underrepresented given the data types available. This species will therefore be included in the rays group given its high conservation status. However only one record so Tier 2. | RAYS | Tier 2 |

| Species Name / Group | | | Assessment | | | |
|----------------------|-----------------------------------|-------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------|
| Species Group | Latin Name | Common Name | Conservation Status | Relevance | Project Model Assessment Unit | Priority |
| Fish | <i>Raja montagui</i> | Spotted Ray | OSPAR (2008), IUCN Red List | Although there is only record (2012) it is likely that this species is dramatically underrepresented given the data types available. This species will therefore be included in the rays group given its high conservation status. However only one record so Tier 2. | RAYS | Tier 2 |
| Fish | <i>Squalus acanthias</i> | Spurdog | Bonn Convention, OSPAR (2008), IUCN Red List, English NERC List | Although there is only record which is old (1977) it is likely that this species is dramatically underrepresented given the data types available. In support, the fishery landings data confirms presence of the species within the AOI (ICES rectangles 30E6 and 30E7) - 41kg 2002-2013. This species will therefore be included in the dogfish group given its high conservation status. However only one / old record and low landings weight so Tier 2. | DOGFISH | Tier 2 |
| Mammals & Turtles | <i>Balaenoptera acutorostrata</i> | Minke whale | Bern Convention, Habitats Directive, EC-CITES, IUCN Red List, English NERC List, Wildlife & Countryside Act 1981, Cons. of Hab&Spp Regs 2010 | Although there is only record (2007), the distribution of marine mammals is under recorded throughout the UK. Whales are highly mobile and are likely to be transient visitors to this area. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Whales group. | WHALES | Tier 2 |
| Mammals & Turtles | <i>Balaenoptera physalus</i> | Fin whale | Bern Convention, Bonn Convention, Habitats Directive, EC-CITES, IUCN Red List, English NERC List, Wildlife & Countryside Act 1981, Cons. of Hab&Spp Regs 2010 | Although this species has only been recorded once within the AOI (2000), the distribution of marine mammals is under recorded throughout the UK. Whales are highly mobile and are likely to be transient visitors to this area. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Whales group. | WHALES | Tier 2 |
| Mammals & Turtles | <i>Megaptera novaeangliae</i> | Humpback whale | Bern Convention, Bonn Convention, Habitats Directive, EC-CITES, IUCN Red List, Wildlife & Countryside Act 1981, Cons. of Hab&Spp Regs 2010 | Although this species has only been recorded once within the AOI (1992), the distribution of marine mammals is under recorded throughout the UK. Whales are highly mobile and are likely to be transient visitors to this area. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Whales group. | WHALES | Tier 2 |
| Mammals & Turtles | <i>Globicephala melas</i> | Long-finned pilot whale | Bern Convention, Bonn Convention, Habitats Directive, EC-CITES, IUCN Red List, English NERC List, Wildlife & Countryside Act 1981, Cons. of Hab&Spp Regs 2010 | Although this species has only been recorded twice within the AOI (2002, 2006), the distribution of marine mammals is under recorded throughout the UK. Whales are highly mobile and are likely to be transient visitors to this area. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Whales group. | WHALES | Tier 2 |
| Mammals & Turtles | <i>Grampus griseus</i> | Risso's dolphin | Bern Convention, Bonn Convention, Habitats Directive, EC-CITES, IUCN Red List, English NERC List, Wildlife & Countryside Act 1981, Cons. of Hab&Spp Regs 2010 | Although this species has not been recorded within the AOI, it has been recorded close by and the distribution of marine mammals is under recorded throughout the UK. Dolphins are highly mobile and are likely to be transient visitors to this area. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Dolphin and Porpoise group. | DOLPHINS & PORPOISES | Tier 2 |

| Species Name / Group | | | Assessment | | | |
|----------------------|-----------------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------|----------|
| Species Group | Latin Name | Common Name | Conservation Status | Relevance | Project Model Assessment Unit | Priority |
| Mammals & Turtles | <i>Delphinus delphis</i> | Common dolphin | Bern Convention, Bonn Convention, Habitats Directive, EC-CITES, IUCN Red List, English NERC List, Wildlife & Countryside Act 1981, Cons. of Hab&Spp Regs 2010 | Although this species has only been recorded within the AOI twelve times (1998-2012), the distribution of marine mammals is under recorded throughout the UK. Dolphins are highly mobile and are likely to be transient visitors to this area. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Dolphin and Porpoise group. | DOLPHINS & PORPOISES | Tier 1 |
| Mammals & Turtles | <i>Lagenorhynchus albirostris</i> | White-beaked dolphin | Bern Convention, Bonn Convention, Habitats Directive, EC-CITES, IUCN Red List, English NERC List, Wildlife & Countryside Act 1981, Cons. of Hab&Spp Regs 2010 | Although this species has only been recorded within the AOI once with three sightings (2008), the distribution of marine mammals is under recorded throughout the UK. Dolphins are highly mobile and are likely to be transient visitors to this area. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Dolphin and Porpoise group. | DOLPHINS & PORPOISES | Tier 2 |
| Mammals & Turtles | <i>Tursiops truncatus</i> | Bottlenose dolphin | Bern Convention, Bonn Convention, Habitats Directive, EC-CITES, IUCN Red List, English NERC List, Wildlife & Countryside Act 1981, Cons. of Hab&Spp Regs 2010 | Unlike the other dolphin and porpoise species there is some evidence to suggest that there is a resident population of Bottlenose dolphins within the AOI with 59 recorded sightings (1999-2012). This population of dolphins is likely to be more dependent on the AOI than other transient visitors and it is therefore included in the sensitivity modelling as an individual species. As there are 59 recorded sightings it may also be possible to undertake a spatial assessment for this species. | BOTTLENOSE DOLPHIN | Tier 1 |
| Mammals & Turtles | <i>Phocoena phocoena</i> | Harbour porpoise | Bern Convention, Bonn Convention, Habitats Directive, OSPAR (2008), EC-CITES, IUCN Red List, English NERC List, Wildlife & Countryside Act 1981, Cons. of Hab&Spp Regs 2010 | Although this species has only been recorded within the AOI eighteen times (1998-2011), the distribution of marine mammals is under recorded throughout the UK. Dolphins are highly mobile and are likely to be transient visitors to this area. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Dolphin and Porpoise group. | DOLPHINS & PORPOISES | Tier 1 |
| Mammals & Turtles | <i>Halichoerus grypus</i> | Grey seal | Bern Convention, Bonn Convention, Habitats Directive, IUCN Red List, Cons. of Hab&Spp Regs 2010 | Although this species has only been recorded within the AOI four times (2008-2009), the distribution of marine mammals is under recorded throughout the UK. Seals are highly mobile and are likely to be transient visitors to this area, since there is no evidence of any haul out areas. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Seal group - Tier 1 due to the recent recordings, albeit low in number. | SEALS | Tier 1 |
| Mammals & Turtles | <i>Phoca vitulina</i> | Harbour seal | Bern Convention, Bonn Convention, Habitats Directive, IUCN Red List, English NERC List, Cons. of Hab&Spp Regs 2010 | Although this species has not been recorded within the AOI it has been recorded in adjacent areas and the distribution of marine mammals is under recorded throughout the UK. Seals are highly mobile and are likely to be transient visitors to this area, since there is no evidence of any haul out areas. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Seal group. | SEALS | Tier 2 |

| Species Name / Group | | | Assessment | | | |
|----------------------|------------------------------|-----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------|----------|
| Species Group | Latin Name | Common Name | Conservation Status | Relevance | Project Model Assessment Unit | Priority |
| Mammals & Turtles | <i>Caretta caretta</i> | Loggerhead Turtle | Bern Convention, Bonn Convention, Habitats Directive, OSPAR (2008), EC-CITES, IUCN Red List, English NERC List, Wildlife & Countryside Act 1981, Cons. of Hab&Spp Regs 2010 | Although this species has only been recorded within the AOI once (1938) the distribution of turtles is under recorded throughout the UK. Turtles are highly mobile and are likely to be transient visitors to this area. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Turtle group. | TURTLES | Tier 2 |
| Mammals & Turtles | <i>Chelonia mydas</i> | Green Turtle | Bern Convention, Bonn Convention, Habitats Directive, EC-CITES, IUCN Red List, Wildlife & Countryside Act 1981, Cons. of Hab&Spp Regs 2010 | Although this species has only been recorded within the AOI once and this is extremely old (1887) the distribution of turtles is under recorded throughout the UK. Turtles are highly mobile and are likely to be transient visitors to this area. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Turtle group. | TURTLES | Tier 2 |
| Mammals & Turtles | <i>Dermochelys coriacea</i> | Leatherback turtle | Bern Convention, Bonn Convention, Habitats Directive, OSPAR (2008), EC-CITES, IUCN Red List, English NERC List, Wildlife & Countryside Act 1981, Cons. of Hab&Spp Regs 2010 | Although this species has only been recorded within the AOI once (2009) the distribution of turtles is under recorded throughout the UK. Turtles are highly mobile and are likely to be transient visitors to this area. However, they are subject to high levels of protection and do have the potential to interact with the inshore fisheries operating in this area. This species will therefore be included in the sensitivity modelling within the Turtle group. | TURTLES | Tier 2 |
| Birds | <i>Fulmarus glacialis</i> | Northern Fulmar | Bern Convention, IUCN Red List, UK Cons. Status (Birds) | High number (74) or recent records and evidence that this species uses the area to breed therefore this species will be assessed in its own right. | FULMAR & SURFACE FEEDING BIRDS | Tier 1 |
| Birds | <i>Calonectris diomedea</i> | Cory's Shearwater | Bern Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | Very few records of this species (1) in the AOI which visits the area in the summer. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | PURSUIT & PLUNGE DIVING BIRDS | Tier 2 |
| Birds | <i>Hydrobates pelagicus</i> | European Storm Petrel | Bern Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | Very few records of this species (1) in the AOI which migrates through the area in spring and autumn. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | PURSUIT & PLUNGE DIVING BIRDS | Tier 2 |
| Birds | <i>Puffinus griseus</i> | Sooty Shearwater | Bern Convention, IUCN Red List, UK Cons. Status (Birds) | Very few records of this species (2) in the AOI which migrates through the area in spring and autumn. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | PURSUIT & PLUNGE DIVING BIRDS | Tier 2 |
| Birds | <i>Puffinus mauretanicus</i> | Balearic Shearwater | Bern Convention, Birds Directive, OSPAR (2008), IUCN Red List, English NERC List, UK Cons. Status (Birds) | Although there are only a small number of this species within the AOI there are reports that suggest this are may become increasingly important to this species and given its Red status it will be included in the sensitivity assessment at the species level. | BALEARIC SHEERWATRE & PURSUIT & PLUNGE DIVING BIRDS | Tier 1 |
| Birds | <i>Puffinus puffinus</i> | Manx Shearwater | Bern Convention, IUCN Red List, UK Cons. Status (Birds) | Although there are a moderate number of records of the manx sheerwater in the AOI there is no evidence that this species is using the area for breeding or that it has a particular affinity with the area. | PURSUIT & PLUNGE DIVING BIRDS | Tier 1 |
| Birds | <i>Alca torda</i> | Razorbill | Bern Convention, Bonn Convention, IUCN Red List, UK Cons. Status (Birds) | Although there are a moderate number of records of the manx sheerwater in the AOI there is no evidence that this species is using the area for breeding or that it has a particular affinity with the area. | PURSUIT & PLUNGE DIVING BIRDS | Tier 1 |

| Species Name / Group | | | Assessment | | | |
|----------------------|---------------------------------|--------------------------|----------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------|
| Species Group | Latin Name | Common Name | Conservation Status | Relevance | Project Model Assessment Unit | Priority |
| Birds | <i>Fratercula arctica</i> | Puffin | Bern Convention, Bonn Convention, IUCN Red List, UK Cons. Status (Birds) | Very few records of this species (1) in the AOI which migrates through the area in spring and autumn. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | PURSUIT & PLUNGE DIVING BIRDS | Tier 2 |
| Birds | <i>Uria aalge</i> | Common Guillemot | Bern Convention, Bonn Convention, IUCN Red List, UK Cons. Status (Birds) | This species is known to nest in the AOI and has been recorded in high numbers (100) and will therefore be assessed at the species level. | COMMON GUILLEMOT & PURSUIT & PLUNGE DIVING BIRDS | Tier 1 |
| Birds | <i>Larus argentatus</i> | Herring Gull | Bonn Convention, Birds Directive, IUCN Red List, English NERC List, UK Cons. Status (Birds) | This species is known to breed and over-winter in the AOI and despite only being recorded in low numbers (5) will be assessed at the species level due to its red conservation status. | HERRING GULL & SURFACE FEEDING BIRDS | Tier 1 |
| Birds | <i>Larus fuscus</i> | Lesser Black-backed Gull | Bonn Convention, Birds Directive, OSPAR (2008), IUCN Red List, UK Cons. Status (Birds) | This species overwinters in the AOI and has been recorded in moderate numbers (20) it will therefore be assessed at the species level | LESSER-BLACK-BACKED GULL & SURFACE FEEDING BIRDS | Tier 1 |
| Birds | <i>Larus marinus</i> | Great Black-Backed Gull | Bonn Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | This species breeds and nests in the AOI and has been recorded in high numbers (74) it will therefore be assessed at the species level | BLACK-BACKED-GULL & SURFACE FEEDING BIRDS | Tier 1 |
| Birds | <i>Larus canus</i> | Common Gull | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | Few records of this species (11) in the AOI which uses this area to over-winter. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | SURFACE FEEDING BIRDS | Tier 1 |
| Birds | <i>Larus ridibundus</i> | Black-headed Gull | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | Few records of this species (9) in the AOI although there are large breeding colonies nearby. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | SURFACE FEEDING BIRDS | Tier 1 |
| Birds | <i>Hydrocoloeus minutus</i> | Little Gull | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, Wildlife & Countryside Act 1981, UK Cons. Status (Birds) | Few records of this species (1) in the AOI which uses migrates through the area in spring / autumn. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | SURFACE FEEDING BIRDS | Tier 2 |
| Birds | <i>Larus melanocephalus</i> | Mediterranean Gull | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, Wildlife & Countryside Act 1981, UK Cons. Status (Birds) | Few records of this species (1) in the AOI although there are large breeding colonies nearby. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | SURFACE FEEDING BIRDS | Tier 2 |
| Birds | <i>Rissa tridactyla</i> | Black-legged Kittiwake | Bern Convention, Bonn Convention, OSPAR (2008), IUCN Red List, UK Cons. Status (Birds) | Although there are no records of this species in the AOI it is known to breed in nearby areas and there is therefore potential for this species to be impacted by the inshore fishing activities in the AOI. | PURSUIT & PLUNGE DIVING BIRDS | Tier 2 |
| Birds | <i>Stercorarius parasiticus</i> | Arctic Skua | Bern Convention, IUCN Red List, UK Cons. Status (Birds) | Few records of this species (4) in the AOI and this species is likely only to pass through the area. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | SURFACE FEEDING BIRDS | Tier 1 |
| Birds | <i>Stercorarius skua</i> | Great Skua | Bern Convention, Bonn Convention, IUCN Red List, UK Cons. Status (Birds) | Few records of this species (6) in the AOI and this species is likely only to pass through the area. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | SURFACE FEEDING BIRDS | Tier 1 |

| Species Name / Group | | | Assessment | | | |
|----------------------|----------------------------------|---------------------|----------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------|
| Species Group | Latin Name | Common Name | Conservation Status | Relevance | Project Model Assessment Unit | Priority |
| Birds | <i>Chlidonias niger</i> | Black Tern | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, Wildlife & Countryside Act 1981, UK Cons. Status (Birds) | Few records of this species (1) in the AOI which migrates through the area. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | PURSUIT & PLUNGE DIVING BIRDS | Tier 2 |
| Birds | <i>Sterna hirundo</i> | Common Tern | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | Although there are only a moderate number of records of the common tern in the AOI there is evidence that this species is using the area for breeding . This species is therefore included in the assessment at the species level. | COMMON TERN & PURSUIT & PLUNGE DIVING BIRDS | Tier 1 |
| Birds | <i>Sterna paradisaea</i> | Arctic Tern | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | Few records of this species (3) in the AOI which migrates through the area. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | PURSUIT & PLUNGE DIVING BIRDS | Tier 1 |
| Birds | <i>Sterna sandvicensis</i> | Sandwich Tern | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | Although there are only a small number of this species within the AOI it is known to breed within the AOI and as such will be included in the sensitivity assessment at the species level. | SANDWICH TERN & PURSUIT & PLUNGE DIVING BIRDS | Tier 1 |
| Birds | <i>Sterna albifrons</i> | Little Tern | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, Wildlife & Countryside Act 1981, UK Cons. Status (Birds) | Although there are no spatial records of this species within the AOI it is known to breed within the AOI and will therefore be included in the sensitivity assessment at the species level. | LITTLE TERN & PURSUIT & PLUNGE DIVING BIRDS | Tier 2 |
| Birds | <i>Actitis hypoleucos</i> | Common Sandpiper | Bern Convention, Bonn Convention, IUCN Red List, UK Cons. Status (Birds) | Intertidal species which will not interact with inshore fisheries | Excluded | N/A |
| Birds | <i>Calidris maritima</i> | Purple Sandpiper | Bern Convention, Bonn Convention, IUCN Red List, Wildlife & Countryside Act 1981, UK Cons. Status (Birds) | Intertidal species which will not interact with inshore fisheries | Excluded | N/A |
| Birds | <i>Haematopus ostralegus</i> | Oystercatcher | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | Intertidal species which will not interact with inshore fisheries | Excluded | N/A |
| Birds | <i>Limosa limosa</i> | Black-tailed Godwit | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, Wildlife & Countryside Act 1981, UK Cons. Status (Birds) | Intertidal species which will not interact with inshore fisheries | Excluded | N/A |
| Birds | <i>Morus bassanus</i> | Gannet | Bern Convention, Bonn Convention, IUCN Red List, English NERC List, UK Cons. Status (Birds) | Although there are a high number of records of this species within the AOI there is no evidence of breeding or nesting in this area and the AOI is not thought to have any special significance for this species. Nevertheless is could be impacted by inshore fishing activities. | PURSUIT & PLUNGE DIVING BIRDS | Tier 1 |
| Birds | <i>Phalacrocorax aristotelis</i> | European Shag | Bern Convention, IUCN Red List, UK Cons. Status (Birds) | Although there are no spatial records of this species within the AOI it is known to breed nearby and nest within the AOI and will therefore be included in the assessment at the species level. | EUROPEAN SHAG & PURSUIT & PLUNGE DIVING BIRDS | Tier 2 |

| Species Name / Group | | | Assessment | | | |
|----------------------|----------------------------|----------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------|----------|
| Species Group | Latin Name | Common Name | Conservation Status | Relevance | Project Model Assessment Unit | Priority |
| Birds | <i>Phalacrocorax carbo</i> | Great Cormorant | Bern Convention, Bonn Convention, IUCN Red List, UK Cons. Status (Birds) | There are a moderate number of records of this species from within the AOI and it is known to breed and nest within the AOI and will therefore be included in the assessment at the species level. | CORMORANT & PURSUIT & PLUNGE DIVING BIRDS | Tier 1 |
| Birds | <i>Anas crecca</i> | Teal | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | Intertidal species which will not interact with inshore fisheries | Excluded | N/A |
| Birds | <i>Anas penelope</i> | Wigeon | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | Intertidal species which will not interact with inshore fisheries | Excluded | N/A |
| Birds | <i>Tadorna tadorna</i> | Shelduck | Bern Convention, Bonn Convention, IUCN Red List, UK Cons. Status (Birds) | Intertidal species which will not interact with inshore fisheries | Excluded | N/A |
| Birds | <i>Melanitta nigra</i> | Common Scoter | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, English NERC List, Wildlife & Countryside Act 1981, UK Cons. Status (Birds) | Although there are a relatively small number of records of this species within the AOI (11) it is known to overwinter in the AOI and has a high conservation status (red) therefore it will be included in the sensitivity assessment at the species level. | COMMON SCOTER & PURSUIT & PLUNGE DIVING BIRDS | Tier 1 |
| Birds | <i>Branta bernicla</i> | Brent Goose | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, English NERC List, UK Cons. Status (Birds) | Intertidal species which will not interact with inshore fisheries | Excluded | N/A |
| Birds | <i>Cygnus olor</i> | Mute Swan | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | Intertidal species which will not interact with inshore fisheries | Excluded | N/A |
| Birds | <i>Podiceps cristatus</i> | Great Crested Grebe | Bern Convention, Bonn Convention, IUCN Red List, UK Cons. Status (Birds) | Only a single record of this species in the AOI Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | PURSUIT & PLUNGE DIVING BIRDS | Tier 2 |
| Birds | <i>Egretta garzetta</i> | Little Egret | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, UK Cons. Status (Birds) | Intertidal species which will not interact with inshore fisheries | Excluded | N/A |
| Birds | <i>Gavia immer</i> | Great Northern Diver | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, Wildlife & Countryside Act 1981, UK Cons. Status (Birds) | Few records of this species (9) in the AOI which over winters in the area. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | PURSUIT & PLUNGE DIVING BIRDS | Tier 1 |
| Birds | <i>Gavia stellata</i> | Red Throated Diver | Bern Convention, Bonn Convention, Birds Directive, IUCN Red List, Wildlife & Countryside Act 1981, UK Cons. Status (Birds) | Few records of this species (3) in the AOI which over winters in the area. Nevertheless there is potential for this species to be impacted by the inshore fishing activities in the AOI. | PURSUIT & PLUNGE DIVING BIRDS | Tier 1 |

Selected species of conservation importance

Whilst Appendix D shows the final species taken forward in the assessment from a vintage of up to 20 years in age, **Figure E1** shows these same species with Latin names shown; and **Figure E2** shows the same species but for all years data was made available. Only data 1994 onwards was used in the assessment, as shown in the main report.

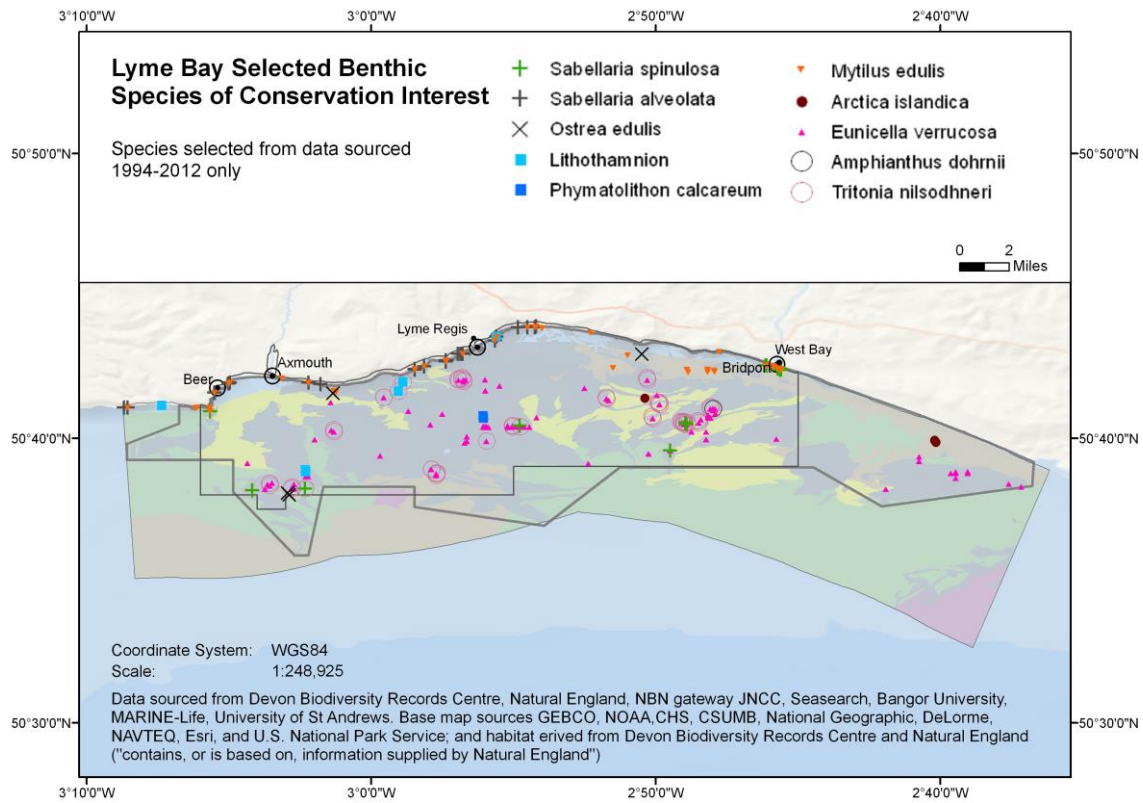


Figure E1: Location of benthic species selected for risk assessment (Latin names)

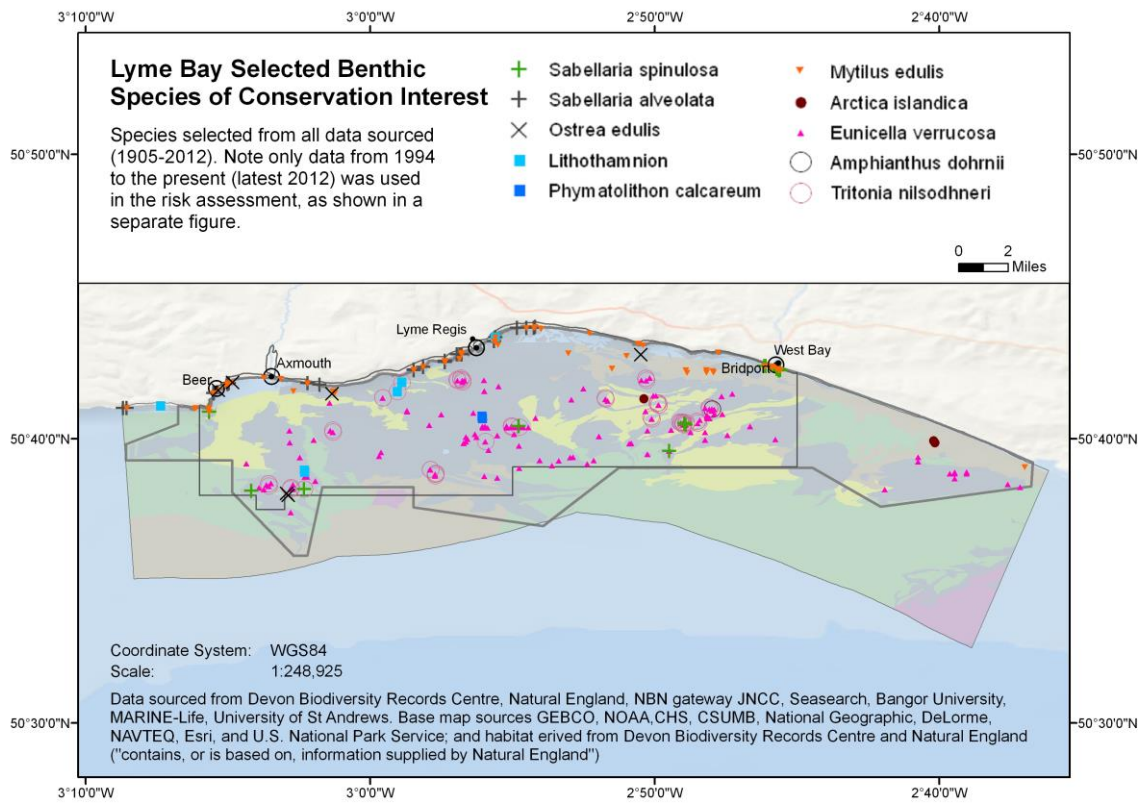


Figure E2: Location of selected benthic species from all vintages