



Hornsea Project Four: Environmental Statement (ES)

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Appendix A: Metadata for the datasets used in the screening exercise

Name	Description	Data Type	Originator	Dates: Created (Downloaded by Authors)	Notes
UK_SACs	UK SACs (GB & NI)	e.g. shapefile/PDF/ spreadsheet/web data	JNCC	December 2017 (August 2021)	As required
HOW04_European_SACs_Natura2000_ETRS89	European SACs/SCIs	ArcGIS Feature Class	European Commission - Natura 2000	end 2019 (June 2020)	Used to show Doggersbank and Klaverbank SACs (for site A1)
HOW04_UK_SACs_with_Marine_Components_ETRS89	UK Marine SACs	ArcGIS Feature Class	JNCC	Dec 2018 (14/01/2019)	
HOW04_Special_Areas_of_Conservation_England_BNG	England Onshore SACs	ArcGIS Feature Class	Natural England	Jan 2019 (14/01/2019)	
HOW04_UK_SPAs_with_Marine_Components_ETRS89	UK Marine SPAs	ArcGIS Feature Class	JNCC	Dec 2018 (14/01/2019)	
HOW04_Special_Protected_Areas_England_BNG	England Onshore SPAs	ArcGIS Feature Class	Natural England	2019 (April 2019)	
HOW04_UK_Ramsar_ETRS89	England Ramsar Sites	ArcGIS Feature Class	Natural England	Jan 2019 (14/01/2019)	Guernsey sites 'Gouliot Caves and Headland' and 'Herm, Jethou and The Humps' digitised from online plans
HOW04_Offshore_WFs_20210614_ETRS89	Offshore Wind Farms	ArcGIS Feature Class	TCE, CES, EMODnet, 4Coffshore	Compiled from sources June 2021	
HOW04_Oil_and_Gas_Surface_Features_ETRS89	UK Oil & Gas Platforms	ArcGIS Feature Class	Oil & Gas Authority UK	April 2019 (April 2019)	

Appendix B: Information on Identified Designated Sites.

Site Name	Designated Features	Link to Site Citation	Link to Conservation Objectives
Benfleet and Southend Marshes Ramsar	Bird assemblages, dark-bellied brent goose, <i>Branta bernicla bernicla</i> , grey plover, <i>Pluvialis squatarola</i> , and red knot, <i>Calidris canutus islandica</i> , dunlin, <i>Calidris alpina alpina</i>	https://jncc.gov.uk/jncc-assets/RIS/UK11006.pdf	N/A
Blackwater Estuary (Mid-Essex Coast Phase 4) Ramsar	Saltmarsh, <i>Paracymus aeneus</i> ; <i>Lestes dryas</i> , <i>Aedes flavescens</i> , <i>Erioptera bivittata</i> , <i>Hybomitra expollicata</i> , <i>Heliophanus auratus</i> , <i>Trichopterna cito</i> , <i>Baris scolopacea</i> , <i>Philonthus punctus</i> , <i>Graptodytes bilineatus</i> , <i>Malachius vulneratus</i> , <i>Campsicemus magius</i> , <i>Myopites eximia</i> , <i>Idaea ochrata</i> , <i>Malacosoma castrensis</i> , the spider <i>Euophrys</i> , waterfowl assemblage, dark-bellied brent goose, <i>Branta bernicla bernicla</i> , grey plover, <i>Pluvialis squatarola</i> , dunlin, <i>Calidris alpina alpina</i> , and, black-tailed godwit, <i>Limosa limosa islandica</i> , common shelduck, <i>Tadorna tadorna</i> , European golden plover, <i>Pluvialis apricaria apricaria</i> , and common redshank, <i>Tringa totanus totanus</i> .	https://jncc.gov.uk/jncc-assets/RIS/UK11007.pdf	N/A
Breydon Water Ramsar	Waterfowl assemblage, Bewick's Swan (<i>Cygnus columbianus bewickii</i>) and Lapwing (<i>Vanellus vanellus</i>).	https://jncc.gov.uk/jncc-assets/RIS/UK11008.pdf	N/A
Chichester and Langstone Harbours Ramsar	Intertidal mudflats, saltmarsh, sand and shingle spits, sand dunes, bird assemblages, ringed plover, <i>Charadrius hiaticula</i> , black-tailed godwit, <i>Limosa limosa islandica</i> , and common redshank, <i>Tringa totanus totanus</i> , dark-bellied brent goose, <i>Branta bernicla bernicla</i> , common shelduck, <i>Tadorna tadorna</i> , grey plover, <i>Pluvialis squatarola</i> , and dunlin, <i>Calidris alpina alpina</i> , and little tern, <i>Sterna albifrons albifrons</i>	https://jncc.gov.uk/jncc-assets/RIS/UK11013.pdf	N/A
Crouch & Roach Estuaries (Mid-Essex Coast Phase 3) Ramsar	<i>Bupleurum tenuissimum</i> , <i>Carex divisa</i> , <i>Hordeum marinum</i> , <i>Inula crithmoides</i> , <i>Limonium humile</i> , <i>Parapholis incurve</i> , <i>Puccinellia fasciculata</i> , <i>Puccinellia rupestris</i> , <i>Ruppia cirrhosa</i> , <i>Salicornia pusilla</i> , <i>Spartina maritima</i> , <i>Suaeda vera</i> and <i>Trifolium squamosum</i> , <i>Lestes dryas</i> , <i>Parydroptera disco-myzina</i> , <i>Stratiomys singularior</i> , <i>Hybomitra expollicata</i> , <i>Graptodytes bilineatus</i> , <i>Malachius vulneratus</i> ,	https://jncc.gov.uk/jncc-assets/RIS/UK11058.pdf	N/A

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	<i>Malacosoma castrensis</i> , <i>Eucosoma catoprana</i> , wildfowl assemblage, and dark-bellied brent goose, <i>Branta bernicla bernicla</i> .		
Dengie (Mid-Essex Coast Phase 1) Ramsar	Saltmarsh, sea kale, <i>Crambe maritima</i> , sea barley, <i>Hordeum marinum</i> , golden samphire, <i>Inula crithmoides</i> , lax flowered sea lavender, <i>Limonium humile</i> , the glassworts, <i>Sarcocornia perennis</i> and <i>Salicornia pusilla</i> , small cord-grass, <i>Spartina maritima</i> , shrubby sea-blite, <i>Suaeda vera</i> , the eelgrasses, <i>Zostera angustifolia</i> , <i>Z. marina</i> and <i>Z. noltei</i> , <i>Baris scolopacea</i> , <i>Atylotus latistriatus</i> , <i>Euophrys browningi</i> , Dark-bellied brent goose, <i>Branta bernicla bernicla</i> , Grey plover, <i>Pluvialis squatarola</i> , and Red knot, <i>Calidris canutus islandica</i> , and Bar-tailed godwit, <i>Limosa lapponica lapponica</i> .	https://jncc.gov.uk/jncc-assets/RIS/UK11018.pdf	N/A
Foulness (Mid-Essex Coast Phase 5) Ramsar	Saltmarsh, nationally-rare and nationally-scarce plant species and invertebrates, Common redshank, <i>Tringa totanus totanus</i> . Species with peak counts in winter Dark-bellied brent goose, <i>Branta bernicla bernicla</i> Eurasian oystercatcher, <i>Haematopus ostralegus ostralegus</i> , Grey plover, <i>Pluvialis squatarola</i> , Red knot, <i>Calidris canutus islandica</i> and Bar-tailed godwit, <i>Limosa lapponica lapponica</i> .	https://jncc.gov.uk/jncc-assets/RIS/UK11026.pdf	N/A
Gibraltar Point Ramsar	Dune and saltmarsh habitats, freshwater marsh containing sedges <i>Carex spp.</i> , rushes <i>Juncus spp.</i> , and ferns, including adder's-tongue fern <i>Ophioglossum vulgatum</i> , nationally rare saltmarsh/dune communities containing sea heath <i>Frankenia laevis</i> , rock sea lavender <i>Limonium binervosum</i> and shrubby sea-blite <i>Suaeda vera</i> , wetland invertebrate species.	https://jncc.gov.uk/jncc-assets/RIS/UK11027.pdf	N/A
Gouliot Caves and Headland Ramsar	Assemblage of marine life found on the walls of the caves. Wide range of inter-tidal and normally sub-littoral invertebrates. Particularly noteworthy are the sponges (Porifera), and sea anemones and other hydroids (Cnidaria).	GB2276RIS_1701_en.pdf (ramsar.org)	N/A
Herm, Jethou and The Humps Ramsar	Dwarf eelgrass (<i>Zostera noltii</i>) beds, Maerl beds, shallow reef systems, sunken shipwreck reefs and Golden Kelp (<i>Laminaria ochroleuca</i>) provide important fish spawning habitats for fish such as Sea Bass and Black Sea Bream, with significant tidal races. The	GB2277RIS_1701_en.pdf (ramsar.org)	N/A

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	bivalve reefs contained within the site are particular significant. The Site is contiguous with benthic and pelagic habitats supporting flatfish and shellfish among others.		
Humber Estuary Ramsar	Dune systems and humid dune slacks, estuarine waters, intertidal mud and sand flats, saltmarshes, coastal brackish/saline lagoons, river lamprey (<i>Lampetra fluviatilis</i>), sea lamprey (<i>Petromyzon marinus</i>), grey seals (<i>Halichoerus grypus</i>), waterfowl assemblage, Common shelduck (<i>Tadorna tadorna</i>), Eurasian golden plover (<i>Pluvialis apricaria</i>), Red knot (<i>Calidris canutus</i>), islandica subspecies, Dunlin (<i>Calidris alpina</i>), Black-tailed godwit (<i>Limosa limosa</i>), Bar-tailed godwit (<i>Limosa lapponica</i>) and Common redshank (<i>Tringa totanus</i>).	https://jncc.gov.uk/jncc-assets/RIS/UK11031.pdf	N/A
Isles of Scilly Ramsar	<i>Hydrobates pelagicus</i> , <i>Larus fuscus</i> , and <i>Phalacrocorax aristotelis aristotelis</i>	https://jncc.gov.uk/jncc-assets/RIS/UK11033.pdf	N/A
Medway Estuary & Marshes Ramsar	Sea barley, <i>Hordeum marinum</i> , curved hard-grass, <i>Parapholis incurva</i> , annual beard-grass, <i>Polypogon monspeliensis</i> , Borrer's saltmarsh-grass, <i>Puccinellia fasciculata</i> , slender hare's-ear, <i>Bupleurum tenuissimum</i> , sea clover, <i>Trifolium squamosum</i> , saltmarsh goose-foot, <i>Chenopodium chenopodioides</i> , golden samphire, <i>Inula crithmoides</i> , perennial glasswort, <i>Sarcocornia perennis</i> and one-flowered glasswort, <i>Salicornia pusilla</i> , <i>Polistichus connexus</i> , <i>Cephalops perspicuus</i> , <i>Poecilobothrus ducalis</i> , <i>Anagnota collini</i> , <i>Baris scolopacea</i> , <i>Berosus spinosus</i> , <i>Malachius vulneratus</i> , <i>Philonthus punctus</i> , <i>Malacosoma castrensis</i> , <i>Atylotus latistriatus</i> , <i>Campsicnemus magius</i> , <i>Cantharis fusca</i> , <i>Limonia Danica</i> , waterfowl assemblage, grey plover, <i>Pluvialis squatarola</i> , common redshank, <i>Tringa totanus totanus</i> , dark-bellied brent goose, <i>Branta bernicla bernicla</i> , common shelduck, <i>Tadorna tadorna</i> , northern pintail, <i>Anas acuta</i> , ringed plover, <i>Charadrius hiaticula</i> , red knot, <i>Calidris canutus islandica</i> , and dunlin, <i>Calidris alpina alpina</i> , black-tailed godwit, <i>Limosa limosa islandica</i> .	https://jncc.gov.uk/jncc-assets/RIS/UK11040.pdf	N/A
Minsmere-Walberswick Heaths and Marshes Ramsar	This composite Suffolk coastal site contains a complex mosaic of habitats notably, areas of marsh with dykes, extensive reedbeds,	https://jncc.gov.uk/jncc-assets/RIS/UK11044.pdf	N/A

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	<p>mud flats, lagoons, shingle, woodland and areas of lowland heath. The site supports the largest continuous stand of reed <i>Phragmites australis</i> in England and Wales and nationally rare transition in grazing marsh ditch plants from brackish to fresh water. The combination of habitats create an exceptional area of scientific interest supporting nationally scarce plants, RDB invertebrates and nationally important numbers of breeding and wintering birds.</p>		
Northumbria Coast Ramsar	<p>The site consists mainly of areas of rocky shore with associated boulder and cobble beaches. These support a rich algal flora and associated fauna and form an important feeding area for wading birds. The areas of sandy beach within the site support a flora which includes marram <i>Ammophila arenaria</i> and sea sandwort <i>Honkenya peploides</i>.</p>	<p>https://jncc.gov.uk/jncc-assets/RIS/UK11049.pdf</p>	N/A
North Norfolk Coast Ramsar	<p>Marshland coast with intertidal sand and mud, saltmarshes, shingle banks and sand dunes, brackish-water lagoons and extensive areas of freshwater grazing marsh and reed beds, nationally scarce vascular plants, lichen and invertebrates, bird assemblage Sandwich tern , <i>Sterna sandvicensis sandvicensis</i>; Common tern , <i>Sterna hirundo hirundo</i>; and Little tern , <i>Sterna albifrons albifrons</i>. Red knot , <i>Calidris canutus islandica</i>, Pink-footed goose , <i>Anser brachyrhynchus</i>; Dark-bellied brent goose, <i>Branta bernicla bernicla</i>; Eurasian wigeon , <i>Anas penelope</i>; and Northern pintail , <i>Anas acuta</i>. Ringed plover , <i>Charadrius hiaticula</i>; Sanderling , <i>Calidris alba</i>; and Bar-tailed godwit , <i>Limosa lapponica lapponica</i>.</p>	<p>https://jncc.gov.uk/jncc-assets/RIS/UK11048.pdf</p>	N/A
Portsmouth Harbour Ramsar	<p><i>Zostera angustifolia</i> and <i>Zostera noltei</i>, dark-bellied brent goose, <i>Branta bernicla bernicla</i>, mud-snail <i>Hydrobia ulvae</i>, Common cord-grass <i>Spartina anglica</i>, saltmarsh, green algae <i>Enteromorpha spp</i>, sea lettuce <i>Ulva lactuca</i>, sea purslane <i>Halimione portulacoides</i>, and saline lagoons.</p>	<p>https://jncc.gov.uk/jncc-assets/RIS/UK11055.pdf</p>	N/A
Solent & Southampton Water Ramsar	<p>Saline lagoons, saltmarshes, estuaries, intertidal flats, shallow coastal waters, grazing marshes, reedbeds, coastal woodland and</p>	<p>https://jncc.gov.uk/jncc-assets/RIS/UK11063.pdf</p>	N/A

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	rocky boulder reefs, assemblage of rare plants and invertebrates, plants <i>Orobanche purpurea</i> and <i>Spartina maritima</i> , <i>Larus melanocephalus</i> , bird assemblages, black-tailed godwit (<i>Limosa limosa islandica</i>), Dark-bellied brent goose (<i>Branta bernicla bernicla</i>), and Eurasian teal, (<i>Anas crecca</i>).		
Teesmouth and Cleaveland Coast Ramsar	Bird assemblage, common redshank, <i>Tringa totanus totanus</i> , and red knot, <i>Calidris canutus islandica</i> .	https://jncc.gov.uk/jncc-assets/RIS/UK11068.pdf	N/A
Thames Estuary & Marshes Ramsar	More than 20 British Red Data Book invertebrates, least lettuce (<i>Lactuca saligna</i>), slender hare's-ear (<i>Bupleurum tenuissimum</i>), divided sedge (<i>Carex divisa</i>), sea barley (<i>Hordeum marinum</i>), Borrer's saltmarsh-grass (<i>Puccinellia fasciculata</i>), and dwarf eelgrass (<i>Zostera nolte</i>).	https://jncc.gov.uk/jncc-assets/RIS/UK11069.pdf	N/A
Thanet Coast and Sandwich Bay Ramsar	15 British Red Data Book wetland invertebrates, and ruddy turnstone, <i>Arenaria interpres interpres</i> .	https://jncc.gov.uk/jncc-assets/RIS/UK11070.pdf	N/A
The Swale Ramsar	Seven red data book invertebrates, <i>Bupleurum tenuissimum</i> , <i>Carex divisa</i> , <i>Hordeum marinum</i> , <i>Spartina maritima</i> , waterfowl assemblage, ringed plover, <i>Charadrius hiaticula</i> . black-tailed godwit, <i>Limosa limosa islandica</i> , Eurasian wigeon, <i>Anas penelope</i> , northern pintail, <i>Anas acuta</i> , and northern shoveler, <i>Anas clypeata</i> .	https://jncc.gov.uk/jncc-assets/RIS/UK11071.pdf	N/A
The Wash Ramsar	Saltmarshes, major intertidal banks of sand and mud, shallow water and deep channels, bird assemblage, <i>Common redshank</i> , <i>Tringa totanus totanus</i> ; Eurasian curlew, <i>Numenius arquata arquata</i> , Eurasian oystercatcher, <i>Haematopus ostralegus ostralegus</i> ; Grey plover, <i>Pluvialis squatarola</i> ; Red knot, <i>Calidris canutus islandica</i> ; and Sanderling, <i>Calidris alba</i> . Black-headed gull, <i>Larus ridibundus</i> ; Common eider, <i>Somateria ollissima mollissima</i> ; Bar-tailed godwit, <i>Limosa lapponica lapponica</i> ; Common shelduck, <i>Tadorna tadorna</i> ; Dark-bellied brent goose, <i>Branta bernicla bernicla</i> ; Dunlin, <i>Calidris alpina alpina</i> ; and Pink-footed goose, <i>Anser brachyrhynchus</i> . Black-tailed godwit, <i>Limosa limosa islandica</i> ; and Ringed plover, <i>Charadrius</i>	https://jncc.gov.uk/jncc-assets/RIS/UK11072.pdf	N/A

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	<i>hiaticula</i> . Species with peak counts in winter: European golden plover, <i>Pluvialis apricaria altifrons</i> ; and Northern lapwing, <i>Vanellus vanellus</i> .		
Benacre to Easton Bavents Lagoons SAC	Benacre to Easton Bavents Lagoons is a series of percolation lagoons on the east coast of England. The lagoons (the Denes, Benacre Broad, Covehithe Broad and Easton Broad) have formed behind shingle barriers and are a feature of a geomorphologically dynamic system. Sea water enters the lagoons by percolation through the barriers, or by overtopping them during storms and high spring tides. The lagoons show a wide range of salinities, from nearly fully saline in South Pool, the Denes, to extremely low salinity at Easton Broad. This range of salinity has resulted in a series of lagoonal vegetation types, including beds of narrow-leaved eelgrass <i>Zostera angustifolia</i> in fully saline or hypersaline conditions, beds of spiral tasselweed <i>Ruppia cirrhosa</i> in brackish water, and dense beds of common reed <i>Phragmites australis</i> in freshwater. The site supports a number of specialist lagoonal species.	https://sac.jncc.gov.uk/site/UK0013104	http://publications.naturalengland.org.uk/file/6005842830950400
Beast Cliff – Whitby (Robin Hood’s Bay) SAC	Vegetated sea cliffs of the Atlantic and Baltic Coasts	http://publications.naturalengland.org.uk/file/5825370217512960	http://publications.naturalengland.org.uk/file/4812440709890048
Bristol Channel Approaches / Dynesfeydd Môr Hafren SAC	Harbour porpoise (<i>Phocoena phocoena</i>)	https://cdn.cyfoethnaturiol.cymru/media/675771/bristolchannelapproachesselectionassessmentdocument.pdf?mode=pad&rnd=13162576075000000	https://cdn.cyfoethnaturiol.cymru/media/679449/bristolchannelapproachesconservationobjectivesandadviceonactivities.pdf?mode=pad&rnd=131625760740000000
Castle Eden Dene SAC	Castle Eden Dene in north-east England represents the most extensive northerly native occurrence of yew <i>Taxus baccata</i> woods in the UK. Extensive yew groves are found in association with ash-elm <i>Fraxinus-Ulmus</i> woodland and it is the only site selected for yew woodland on magnesian limestone in north-east England.	https://sac.jncc.gov.uk/site/UK0012768	http://publications.naturalengland.org.uk/file/4911815473758208

Site Name	Designated Features	Link to Site Citation	Link to Conservation Objectives
			http://publications.naturalengland.org.uk/file/5397001017753600
Dogger Bank SAC	Sandbanks which are slightly covered by sea water all the time	N/A	https://data.jncc.gov.uk/data/26659f8d-271e-403d-8a6b-300defcabc1/DoggerBank-2-ConservationObjectives-v1.0.pdf
Doggersbank SAC	Reefs, submerged or partially submerged sea caves, and vegetated sea cliffs of the Atlantic and Baltic Coasts	https://eunis.eea.europa.eu/sites/NL2008001	N/A
Durham Coast SAC	The Durham Coast is the only example of vegetated sea cliffs on magnesian limestone exposures in the UK. These cliffs extend along the North Sea coast for over 20 km from South Shields southwards to Blackhall Rocks. Their vegetation is unique in the British Isles and consists of a complex mosaic of paramaritime, mesotrophic and calcicolous grasslands, tall-herb fen, seepage flushes and wind-pruned scrub. Within these habitats rare species of contrasting phytogeographic distributions often grow together forming unusual and species-rich communities of high scientific interest. The communities present on the sea cliffs are largely maintained by natural processes including exposure to sea spray, erosion and slippage of the soft magnesian limestone bedrock and overlying glacial drifts, as well as localised flushing by calcareous water.	https://sac.jncc.gov.uk/site/UK0030140	http://publications.naturalengland.org.uk/file/5518496490586112 http://publications.naturalengland.org.uk/file/5518496490586112
Essex Estuaries SAC	Estuaries, mudflats and sandflats not covered by seawater at low tide, Salicornia and other annuals colonizing mud and sand, Spartina swards (<i>Spartinion maritimae</i>), Atlantic salt meadows (<i>Glauco-Puccinellietalia maritimae</i>), and sandbanks which are slightly covered by sea water all the time.	http://publications.naturalengland.org.uk/file/6341545577938944	http://publications.naturalengland.org.uk/file/5457156304535552

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Fal and Helford SAC	Sandbanks which are slightly covered by sea water all the time, mudflats and sandflats not covered by seawater at low tide, Large shallow inlets and bays, Atlantic salt meadows (<i>Glauco-Puccinellietalia maritima</i>), estuaries; and reefs.	http://publications.naturalengland.org.uk/file/4955564324945920	http://publications.naturalengland.org.uk/file/5315639078289408
Flamborough Head SAC	Reefs, submerged or partially submerged sea caves, and vegetated sea cliffs of the Atlantic and Baltic Coasts	http://publications.naturalengland.org.uk/file/4896976395042816 (archived) and http://publications.naturalengland.org.uk/file/5977360486891520 (2018)	http://publications.naturalengland.org.uk/file/6625807107883008
Hainsborough, Hammond and Winterton SAC	Sandbanks which are slightly covered by sea water all the time, and Reefs.	N/A	https://designatedsites.naturalengland.org.uk/Marine/MarineSiteDetail.aspx?SiteCode=UK0030369&SiteName=Haisborough&SiteNameDisplay=Haisborough,%20Hammond%20and%20Winterton%20SAC&countyCode=&responsiblePerson=&SeaArea=&IFCAArea=&NumMarineSeasonality=&HasCA=1#hico
Humber Estuary SAC	Estuaries, Mudflats and sandflats not covered by seawater at low tide, Sandbanks which are slightly covered by sea water all the time, Salicornia and other annuals colonizing mud and sand, Atlantic salt meadows (<i>Glauco-Puccinellietalia maritima</i>), Embryonic shifting dunes, Coastal lagoons (*Priority feature), "Shifting dunes along the shoreline with <i>Ammophila arenaria</i> ("white dunes"), "Fixed coastal	http://publications.naturalengland.org.uk/file/5279612212871168	http://publications.naturalengland.org.uk/file/6294287600058368

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	dunes with herbaceous vegetation ("grey dunes") (*Priority feature), Dunes with <i>Hippoph rhamnoides</i> , Grey seal, <i>Halichoerus grypus</i> Sea lamprey, <i>Petromyzon marinus</i> , River lamprey, <i>Lampetra fluviatilis</i>		
Isles of Scilly SAC	Sandbanks which are slightly covered by seawater all the time, mudflats and sandflats not covered by seawater at low tide, reefs, and grey seal (<i>Halichoerus grypus</i>)	http://publications.naturalengland.org.uk/file/5401458870583296	http://publications.naturalengland.org.uk/file/4585113526730752
Inner Dowsing, Race Bank and North Ridge SAC	Sandbanks which are slightly covered by sea water all the time, and reefs	N/A	http://publications.naturalengland.org.uk/file/6165144
Klaverbank SAC	Reefs, Coastal lagoons (*Priority feature), Perennial vegetation of stony banks, Mediterranean and thermo-Atlantic halophilous scrubs (<i>Sarcocornetea fruticosi</i>) Embryonic shifting dunes, "Shifting dunes along the shoreline with <i>Ammophila arenaria</i> ("white dunes")", "Fixed coastal dunes with herbaceous vegetation ("grey dunes")" (*Priority feature) and Humid dune slacks.	https://eunis.eea.europa.eu/sites/NL2008002	N/A
Limestone Coast of South West Wales/ Arfordir Calchfaen de Orllewin Cymru SAC	Vegetated sea cliffs of the Atlantic and Baltic Coasts, "Fixed coastal dunes with herbaceous vegetation ("grey dunes")", European dry heaths, Semi-natural dry grasslands and scrubland facies on calcareous substrates (<i>Festuco-Brometalia</i>) (* important orchid sites), Caves not open to the public, Submerged or partially submerged sea caves, Greater horseshoe bat <i>Rhinolophus ferrumequinum</i> , Early gentian <i>Gentianella anglica</i> , and Petalwort <i>Petalophyllum ralfsii</i> .	https://sac.jncc.gov.uk/site/UK0014787	N/A
Margate and Long Sands SAC	Sandbanks which are slightly covered by sea water all the time.	N/A	http://publications.naturalengland.org.uk/file/6272357069225984
Minsmere-Walberswick Heaths and Marshes SAC	1210 Annual vegetation of drift lines This site is one of two representatives of Annual vegetation of drift lines on the east coast of England. It occurs on a well-developed beach strandline of mixed sand and shingle and is the best and most	https://sac.jncc.gov.uk/site/UK0012809	http://publications.naturalengland.org.uk/file/4943448310546432

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	<p>extensive example of this restricted geographical type. Species include those typical of sandy shores, such as sea sandwort <i>Honckenya peploides</i> and shingle plants such as sea beet <i>Beta vulgaris ssp. maritima</i>.</p> <p>4030 European dry heaths</p> <p>Lowland European dry heaths occupy an extensive area of this site on the east coast of England, which is at the extreme easterly range of heath development in the UK. The heathland is predominantly NVC type H8 <i>Calluna vulgaris</i> – <i>Ulex gallii</i> heath, usually more characteristic of western parts of the UK. This type is dominated by heather <i>Calluna vulgaris</i>, western gorse <i>Ulex gallii</i> and bell heather <i>Erica cinerea</i>.</p>		<p>http://publications.naturalengland.org.uk/file/5537398570352640</p>
North Antrim Coast SAC	<p>The North Antrim Coast represents an extensive area of hard cliff along one of the most exposed coastlines in Northern Ireland. The site exhibits contrasting geology. The western part is centred on the Giant's Causeway with its geochemically alkali and intermediate basaltic high cliff, interspersed with a series of coves. The eastern section hosts the limited active and extensive fossil chalk sea-cliffs. The basalt series supports a range of communities including those associated with rock crevices and cliff ledges, and with a range of typical maritime grasslands and heath. Notable species for the site include Wilson's filmy-fern <i>Hymenophyllum wilsonii</i>, thyme broomrape <i>Orobanche alba</i>, hare's-foot clover <i>Trifolium arvense</i>, zigzag clover <i>Trifolium medium</i> and common juniper <i>Juniperus communis</i>. The chalk cliffs support mesotrophic and calcareous grasslands.</p>	<p>https://sac.jncc.gov.uk/site/UK0030224</p>	<p>https://www.daera-ni.gov.uk/sites/default/files/publications/doe/land-information-north-antrim-coast-conservation-objectives-2015.pdf</p>
North Norfolk Sandbanks and Saturn Reef SAC	<p>Sandbanks which are slightly covered by sea water all the time, and reefs.</p>	<p>N/A</p>	<p>https://jncc.gov.uk/our-work/north-norfolk-sandbanks-and-saturn-reef-mpa/#conservation-advice</p>

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Pembrokeshire Marine/ Sir Benfro Forol SAC	Estuaries, large shallow inlets and bays, reefs; sandbanks which are slightly covered by sea water all the time, mudflats and sandflats not covered by seawater at low tide, coastal lagoons (* Priority feature), Atlantic salt meadows (<i>Glauco-Puccinellietalia maritimae</i>); submerged or partially submerged sea caves, sea lamprey (<i>Petromyzon marinus</i>), river lamprey (<i>Lampetra fluviatilis</i>), allis shad (<i>Alosa alosa</i>), twaite shad (<i>Alosa fallax</i>), grey seal (<i>Phocoena phocoena</i>), shore dock (<i>Rumex rupestris</i>), and otter (<i>Lutra lutra</i>).	https://sac.jncc.gov.uk/site/UK0013116	N/A
Plymouth Sound and Estuaries SAC	Sandbanks which are slightly covered by sea water all the time; Estuaries, large shallow inlets and bays, reefs, Atlantic salt meadows (<i>Glauco-Puccinellietalia maritimae</i>), mudflats and sandflats not covered by seawater at low tide, shore dock (<i>Rumex rupestris</i>), and Allis Shad (<i>Alosa alosa</i>).	http://publications.naturalengland.org.uk/file/6099280326557696	http://publications.naturalengland.org.uk/file/6256070553239552
Polruan to Polperro SAC	European dry heaths, vegetated sea cliffs of the Atlantic and Baltic coasts and Shore dock (<i>Rumex rupestris</i>)	http://publications.naturalengland.org.uk/file/4872275815825408	http://publications.naturalengland.org.uk/file/4678534727729152
Rathlin Island SAC	Reefs, submerged or partially submerged sea caves, sandbanks which are slightly covered by seawater all the time, annual vegetation of drift lines, and vegetated sea cliffs of the Atlantic and Baltic Coasts.	https://www.daera-ni.gov.uk/sites/default/files/publications/doe/land-information-reasons-for-designation-special-area-of-conservation-rathlin-island-2006.pdf	https://www.daera-ni.gov.uk/sites/default/files/publications/doe/Conservation%20Objectives%20%282017%29.%20%20Rathlin%20Island%20SAC.%20%20Version%203.1%20-%20amendment%2013.10.2017.%20PDF..PDF
Solent Maritime SAC	Estuaries, spartina swards <i>Spartinion maritimae</i> , Atlantic salt meadows <i>Glauco-Puccinellietalia maritimae</i> , Sandbanks which are slightly covered by sea water all the time, mudflats and sandflats not covered by seawater at low tide, Salicornia and other annuals colonizing mud and sand, coastal lagoons (*Priority feature), and annual vegetation of drift lines.	http://publications.naturalengland.org.uk/file/5064469629632512	http://publications.naturalengland.org.uk/file/5336347464433664

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South Wight Maritime SAC	Reefs, submerged or partially submerged sea caves, and vegetated sea cliffs of the Atlantic and Baltic coasts.	http://publications.naturalengland.org.uk/file/6190369536475136	http://publications.naturalengland.org.uk/file/6148389549113344
Southern North Sea SAC	<i>Phocoena phocoena</i>	N/A	https://data.jncc.gov.uk/data/206f2222-5c2b-4312-99ba-d59dfd1dec1d/SouthernNorthSea-conservation-advice.pdf
Start Point to Plymouth Sound & Eddystone SAC	Reefs	N/A	http://publications.naturalengland.org.uk/file/4806652369043456
Thanet Coast SAC	Reefs, and submerged or partially submerged sea caves.	http://publications.naturalengland.org.uk/file/5125561445777408	http://publications.naturalengland.org.uk/file/6034862557626368
The Wash and North Norfolk Coast SAC	Sandbanks which are slightly covered by sea water all the time, mudflats and sandflats not covered by seawater at low tide, large shallow inlets and bays, reefs, Salicornia and other annuals colonizing mud and sand, Atlantic salt meadows (<i>Glauco-Puccinellietalia maritima</i>), coastal lagoons, Mediterranean and thermo-Atlantic halophilous scrubs (<i>Sarcocornetea fruticosi</i>), Otter (<i>Lutra lutra</i>), and harbour seal (<i>Phoca vitulina</i>).	http://publications.naturalengland.org.uk/file/5068730392379392	http://publications.naturalengland.org.uk/file/5213489320951808
West Wales Marine / Gorllewin Cymru Forol SAC	Harbour porpoise (<i>Phocoena phocoena</i>)	N/A	https://naturalresources.wales.gov.uk/media/681439/w-wales-marine-objectives-advice.pdf
Benacre to Easton Bavents Lagoons SAC	Benacre to Easton Bavents Lagoons is a series of percolation lagoons on the east coast of England. The lagoons (the Denes, Benacre Broad, Covehithe Broad and Easton Broad) have formed behind shingle barriers and are a feature of a geomorphologically dynamic system. Sea water enters the lagoons	https://sac.jncc.gov.uk/site/UK0013104	http://publications.naturalengland.org.uk/file/5222146070806528

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	<p>by percolation through the barriers, or by overtopping them during storms and high spring tides. The lagoons show a wide range of salinities, from nearly fully saline in South Pool, the Denes, to extremely low salinity at Easton Broad. This range of salinity has resulted in a series of lagoonal vegetation types, including beds of narrow-leaved eelgrass <i>Zostera angustifolia</i> in fully saline or hypersaline conditions, beds of spiral tasselweed <i>Ruppia cirrhosa</i> in brackish water, and dense beds of common reed <i>Phragmites australis</i> in freshwater. The site supports a number of specialist lagoonal species.</p>		<p>http://publications.naturalengland.org.uk/file/5503127986110464</p>
Benfleet and Southend Marshes SPA	<p><i>Branta bernicla bernicla</i>, <i>Calidris alpina alpina</i>, <i>Calidris canutus</i>, <i>Charadrius hiaticula</i>, <i>Pluvialis squatarola</i>, and waterfowl assemblage.</p>	<p>http://publications.naturalengland.org.uk/file/6270173254254592</p>	<p>http://publications.naturalengland.org.uk/file/4710112552026112</p>
Blackwater Estuary (Mid-Essex Coast Phase 4) SPA	<p><i>Aythya farina</i>, <i>Branta bernicla bernicla</i>, <i>Calidris alpina alpina</i>, <i>Charadrius hiaticula</i>, <i>Charadrius hiaticula</i>, <i>Circus cyaneus</i>, <i>Limosa limosa islandica</i>, <i>Pluvialis squatarola</i>, <i>Sterna albifrons</i>, and waterfowl assemblage.</p>	<p>http://publications.naturalengland.org.uk/file/6439137804550144</p>	<p>http://publications.naturalengland.org.uk/file/4772007141179392</p>
Breydon Water SPA	<p><i>Cygnus columbianus bewickii</i>, <i>Philomachus pugnax</i>; <i>Pluvialis apricaria</i>, <i>Recurvirostra avosetta</i>, <i>Sterna hirundo</i>, <i>Vanellus vanellus</i>, and waterfowl assemblage.</p>	<p>http://publications.naturalengland.org.uk/file/6031456824459264</p>	<p>http://publications.naturalengland.org.uk/file/4822248376762368</p>
Chichester and Langstone Harbours SPA	<p><i>Anas acuta</i>, <i>Anas clypeata</i>, <i>Anas crecca</i>, <i>Anas Penelope</i>, <i>Arenaria interpres</i>, <i>Branta bernicla bernicla</i>, <i>Calidris alba</i>, <i>Calidris alpina alpina</i>, <i>Charadrius hiaticula</i>, <i>Limosa lapponica</i>, <i>Mergus serrator</i> <i>Numenius arquata</i>, <i>Pluvialis squatarola</i>, <i>Sterna albifrons</i>, <i>Sterna hirundo</i> <i>Sterna sandvicensis</i>, <i>Tadorna tadorna</i>, <i>Tringa totanus</i>, and waterfowl assemblage.</p>	<p>http://publications.naturalengland.org.uk/file/6544101247811584</p>	<p>http://publications.naturalengland.org.uk/file/4661175359111168</p>
Crouch and Roach Estuaries (Mid-Essex Coast Phase 3) SPA	<p><i>Branta bernicla bernicla</i>, and waterbird assemblage.</p>	<p>http://publications.naturalengland.org.uk/file/5367340049104896</p>	<p>http://publications.naturalengland.org.uk/file/6067995655012352</p>

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Dengie (Mid-Essex Coast Phase 1) SPA	<i>Branta bernicla bernicla</i> , <i>Calidris canutus</i> , <i>Circus cyaneus</i> , <i>Pluvialis squatarola</i> , and waterfowl assemblage.	http://publications.naturalengland.org.uk/file/4584164514856960	http://publications.naturalengland.org.uk/file/6271138279981056
Falmouth Bay to St. Austell Bay SPA	<i>Gavia arctica</i> , <i>Gavia immer</i> , and <i>Podiceps auratus</i> .	http://publications.naturalengland.org.uk/file/5458680861949952	http://publications.naturalengland.org.uk/file/6409515281154048
Flamborough & Filey Coast SPA	<i>Alca torda</i> , <i>Morus bassanus</i> , <i>Rissa tridactyla</i> , <i>Uria aalge</i> , and seabird assemblage.	http://publications.naturalengland.org.uk/file/4690761199386624	http://publications.naturalengland.org.uk/file/6055638698557440
Foulness (Mid-Essex Coast Phase 5) SPA	<i>Branta bernicla bernicla</i> , <i>Calidris canutus</i> , <i>Charadrius hiaticula</i> , <i>Circus cyaneus</i> , <i>Haematopus ostralegus</i> , <i>Limosa lapponica</i> , <i>Pluvialis squatarola</i> , <i>Recurvirostra avosetta</i> , <i>Sterna albifrons</i> , <i>Sterna hirundo</i> , <i>Sterna sandvicensis</i> , <i>Tringa totanus</i> , and waterfowl assemblage.	http://publications.naturalengland.org.uk/file/5461169120739328	http://publications.naturalengland.org.uk/file/6519660187222016
Gibraltar Point SPA	<i>Calidris alba</i> , <i>Limosa lapponica</i> , <i>Pluvialis squatarola</i> , and <i>Sterna albifrons</i> .	http://publications.naturalengland.org.uk/file/5182717482237952	http://publications.naturalengland.org.uk/file/6182824961114112
Grassholm SPA	<i>Morus bassanus</i>	https://jncc.gov.uk/jncc-assets/SPA-N2K/UK9014041.pdf	
Great Yarmouth North Denes SPA	<i>Sterna albifrons</i>	https://jncc.gov.uk/jncc-assets/SPA-N2K/UK9009271.pdf	http://publications.naturalengland.org.uk/file/6450939770961920
Greater Wash SPA	<i>Gavia stellata</i> , <i>Larus minutus</i> , <i>Melanitta nigra</i> , <i>Sterna albifrons</i> , <i>Sterna hirundo</i> ; and <i>Sterna sandvicensis</i> .	http://publications.naturalengland.org.uk/file/6567930578075648	http://publications.naturalengland.org.uk/file/4597105251581952
Humber Estuary SPA	<i>Anas crecca</i> , <i>Anas Penelope</i> , <i>Anas platyrhynchos</i> , <i>Arenaria interpres</i> , <i>Aythya farina</i> , <i>Aythya marila</i> <i>Botaurus stellari</i> <i>Branta bernicla bernicla</i> , <i>Bucephala clangula</i> , <i>Calidris alba</i> , <i>Calidris alpina alpina</i> , <i>Calidris canutu</i> , <i>Charadrius hiaticula</i> , <i>Charadrius hiaticula</i> , <i>Circus aeruginosus</i> , <i>Circus cyaneus</i> , <i>Haematopus ostralegus</i> , <i>Limosa lapponica</i> , <i>Limosa limosa islandica</i> , <i>Numenius arquata</i> , <i>Numenius</i>	http://publications.naturalengland.org.uk/file/4968674834251776	http://publications.naturalengland.org.uk/file/5874535631159296

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	<i>phaeopus</i> , <i>Philomachus pugnax</i> , <i>Pluvialis apricaria</i> , <i>Pluvialis squatarola</i> , <i>Recurvirostra avosetta</i> , <i>Sterna albifrons</i> , <i>Tadorna tadorna</i> , <i>Tringa nebularia</i> , <i>Tringa totanus</i> , <i>Vanellus vanellus</i> , and waterfowl assemblage		
North Norfolk Coast SPA	<i>Anas penelope</i> ; <i>Anser brachyrhynchus</i> ; <i>Botaurus stellaris</i> ; <i>Branta bernicla bernicla</i> ; <i>Calidris canutus</i> ; <i>Circus aeruginosus</i> ; <i>Recurvirostra avosetta</i> ; <i>Sterna albifrons</i> ; <i>Sterna hirundo</i> ; and <i>Sterna sandvicensis</i> .	http://publications.naturalengland.org.uk/file/4548204783730688	http://publications.naturalengland.org.uk/file/4744900111499264
Medway Estuary and Marshes SPA	<i>Anas acuta</i> , <i>Anas clypeata</i> , <i>Anas crecca</i> , <i>Anas penelope</i> , <i>Anas platyrhynchos</i> , <i>Arenaria interpres</i> , <i>Aythya farina</i> , <i>Branta bernicla bernicla</i> , <i>Calidris alpina alpina</i> , <i>Calidris canutus</i> , <i>Charadrius hiaticula</i> , <i>Circus cyaneus</i> , <i>Cygnus columbianus bewickii</i> , <i>Falco columbarius</i> , <i>Gavia stellata</i> , <i>Haematopus ostralegus</i> , <i>Limosa limosa islandica</i> , <i>Numenius arquata</i> , <i>Phalacrocorax carbo</i> , <i>Pluvialis squatarola</i> , <i>Podiceps cristatus</i> , <i>Recurvirostra avosetta</i> , <i>Recurvirostra avosetta</i> , <i>Sterna albifrons</i> , <i>Sterna hirundo</i> , <i>Tadorna tadorna</i> , <i>Tringa nebularia</i> , and <i>Tringa totanus</i> .	http://publications.naturalengland.org.uk/file/5039453273849856	http://publications.naturalengland.org.uk/file/5579733639364608
Northumbria Coast SPA	<i>Arearia interpres</i> , <i>Calidris maritima</i> , <i>Sterna albifrons</i> , <i>Sterna paradiaea</i>	https://jncc.gov.uk/jncc-assets/SPA-N2K/UK9006131.pdf	http://publications.naturalengland.org.uk/file/5211071631851520
Outer Thames Estuary SPA	<i>Gavia stellata</i> , <i>Sterna albifrons</i> , and <i>Sterna hirundo</i>	http://publications.naturalengland.org.uk/file/5459831745413120	http://publications.naturalengland.org.uk/file/5184120712069120
Portsmouth Harbour SPA	<i>Branta bernicla bernicla</i> , <i>Calidris alpina alpina</i> , <i>Limosa limosa islandica</i> , and <i>Mergus serrator</i> .	http://publications.naturalengland.org.uk/file/5971306340155392	http://publications.naturalengland.org.uk/file/4859370047537152
Rathlin Island SPA	<i>Alca torda</i> , <i>Falco peregrinus</i> , <i>Rissa tridactyla</i> , <i>Uria aalge</i> , and seabird assemblage.	https://www.daera-ni.gov.uk/sites/default/files/publications/doe/Rathlin%20SPA%20Citation%20document%20and%20map.pdf	https://www.daera-ni.gov.uk/sites/default/files/publications/doe/rathlin-spa-conservation-objectives-2015.pdf

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Sandlings SPA	<i>Caprimulgus europaeus</i> , <i>Lullula arborea</i>	https://jncc.gov.uk/jncc-assets/SPA-N2K/UK9020286.pdf	http://publications.naturalengland.org.uk/file/6246575764668416 http://publications.naturalengland.org.uk/file/5201677619822592
Sheep Island SPA	<i>Phalacrocorax carbo</i>	https://jncc.gov.uk/jncc-assets/SPA-N2K/UK9020021.pdf	https://www.daera-ni.gov.uk/sites/default/files/publications/doe/sheep-island-spa-conservation-objectives-2015.pdf
Solent & Southampton Water SPA	<i>Anas crecca</i> , <i>Branta bernicla bernicla</i> , <i>Charadrius hiaticula</i> , <i>Larus melanocephalus</i> , <i>Limosa limosa islandica</i> , <i>Sterna albifrons</i> , <i>Sterna dougallii</i> , <i>Sterna hirundo</i> , <i>Sterna sandvicensis</i> , and waterfowl assemblage	http://publications.naturalengland.org.uk/file/6224743971684352	http://publications.naturalengland.org.uk/file/5932771361161216
Tamar Estuaries Complex SPA	<i>Egretta garzetta</i> ; and <i>Recurvirostra avosetta</i> .	http://publications.naturalengland.org.uk/file/6476982804021248	http://publications.naturalengland.org.uk/file/5407902819155968
Teesmouth and Cleaveland Coast SPA	<i>Calidris canutus</i> , <i>Philomachus pugnax</i> , <i>Recurvirostra avosetta</i> , <i>Sterna albifrons</i> , <i>Sterna hirundo</i> , <i>Sterna sandvicensis</i> , <i>Tringa totanus</i> ; and waterbird assemblage	http://publications.naturalengland.org.uk/file/5918712406212608 (archived) and http://publications.naturalengland.org.uk/file/4903947418730496 (updated)	http://publications.naturalengland.org.uk/file/4849489020190720
Thames Estuary and Marshes SPA	<i>Calidris alpina alpina</i> , <i>Calidris canutus</i> , <i>Charadrius hiaticula</i> , <i>Circus cyaneus</i> , <i>Limosa limosa islandica</i> , <i>Pluvialis squatarola</i> , <i>Recurvirostra avosetta</i> , <i>Tringa totanus</i> , and waterfowl assemblage	http://publications.naturalengland.org.uk/file/6583903435358208	http://publications.naturalengland.org.uk/file/6393717116370944

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Thanet Coast and Sandwich Bay SPA	<i>Arenaria interpres</i> , <i>Pluvialis apricaria</i> , and <i>Sterna albifrons</i> .	http://publications.naturalengland.org.uk/file/6175094149742592	http://publications.naturalengland.org.uk/file/5852964510236672
The Swale SPA	<i>Anas crecca</i> , <i>Anas strepera</i> , <i>Branta bernicla bernicla</i> ; <i>Calidris alpina alpina</i> ; <i>Charadrius hiaticula</i> , <i>Haematopus ostralegus</i> ; <i>Numenius arquata</i> , <i>Pluvialis squatarola</i> ; <i>Tringa totanus</i> , breeding bird assemblage, and waterfowl assemblage.	http://publications.naturalengland.org.uk/file/4517156041523200	http://publications.naturalengland.org.uk/file/4666133965963264
The Wash SPA	<i>Anas acuta</i> , <i>Anas Penelope</i> , <i>Anas strepera</i> , <i>Anser brachyrhynchus</i> , <i>Arenaria interpres</i> , <i>Branta bernicla bernicla</i> , <i>Bucephala clangula</i> , <i>Calidris alba</i> , <i>Calidris alpina alpina</i> , <i>Calidris canutus</i> , <i>Cygnus columbianus bewickii</i> , <i>Haematopus ostralegus</i> , <i>Limosa lapponica</i> , <i>Limosa limosa islandica</i> , <i>Melanitta nigra</i> , <i>Numenius arquata</i> , <i>Pluvialis squatarola</i> , <i>Sterna albifrons</i> , <i>Sterna hirundo</i> , <i>Tadorna tadorna</i> , A162 <i>Tringa totanus</i> ; and waterfowl assemblage	http://publications.naturalengland.org.uk/file/5834437967216640	http://publications.naturalengland.org.uk/file/4748062010638336