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## Report to the National Assembly for Wales on Marine Protected Areas in Wales

December 2012



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## INTRODUCTION

- 1 This document provides the Welsh Government's Report to the National Assembly for Wales on the Marine Protected Areas network. Section 124 of the Marine and Coastal Access Act 2009 (the Marine Act) requires the Welsh Ministers to lay a report before the National Assembly for Wales in 2012, and six yearly thereafter, on the extent to which it has achieved the objectives in the Marine Act to use conservation sites to contribute to a UK network of marine protected areas. The report must also cover further steps needed, as well as specific details on any Marine Conservation Zones that have been designated.
  
2. The requirement to lay the report is dependent on Part V of the Marine Act having been commenced. The Welsh Ministers are keeping under review the commencement of Part V in Wales in light of the additional work on Marine Conservation Zones which is due to report in April 2013. They are therefore, in the absence of a statutory requirement, laying this report voluntarily under standing order 15.2. This report covers the period ending 31 December 2012.
  
3. This report reflects the key messages within the Countryside Council for Wales' report *Welsh Marine Protected Areas: Contribution to the UK Network*, November 2012, the detail of which will inform further work.

## BACKGROUND

4. Marine protected areas (MPAs) are just one of the ways in which the Welsh Government can manage and improve the marine environment of Wales working towards our vision for clean, healthy, safe, productive and biologically diverse seas. A network of MPAs refers to all the different types of MPAs for biodiversity taken together. A well designed network will contain MPAs of different sizes for different habitats and species, connected through movements of adult species and larvae, with a range of protection levels, to protect biodiversity. A coherent network can therefore function to protect multiple habitats and species, and support a variety of key habitats and life stages of species.
5. The emphasis on networks reflects the fact that the biodiversity and wider benefits of a well-designed and well-managed network of sites are greater than the sum of the benefits from a collection of individually planned sites.
6. The Marine Act at section 123 provides for the establishment of a network of marine protected areas that:
  - contributes to the conservation or improvement of the marine environment in the UK marine area;
  - represents the range of features present in the UK marine area;
  - reflects the fact that conservation of a feature may require the designation of more than one site.
7. The Marine Act also states that the network will include:
  - European Marine Sites; Special Areas of Conservation and Special, Protection Areas,
  - Sites of Special Scientific Interest,
  - Ramsar sites, and
  - Marine Conservation Zones.

## NATIONAL, EUROPEAN AND INTERNATIONAL COMMITMENTS

8. There are a number of national and international commitments that the Welsh Government, alongside the other UK administrations, has signed up to for the protection of marine biodiversity; these include a number of commitments on establishing marine protected areas.

### National

- The **UK Marine Policy Statement**: the UK administrations are committed to completing an ecologically coherent network of marine protected areas as part of a broad based approach to nature conservation in the UK and help deliver the vision for clean, healthy, safe, productive and biologically diverse seas <sup>1</sup>;

### European

- **Wild Birds Directive and Habitats Directive**: The Wild Birds Directive requires spatial protection measures for all naturally occurring wild birds as well as measures for the protection of migratory birds. These areas are known as Special Protection Areas (SPAs). The Habitats Directive requires Special Areas of Conservation (SACs) for the conservation of habitats and species that are of European importance. Collectively these sites form the Natura 2000 network, an EU-wide network of nature protection areas which aims to assure the long-term survival of Europe's most valuable and threatened species and habitats;
- **Marine Strategy Framework Directive (MSFD)**: the Welsh Government working with the other administrations has committed to contributing to achieving Good Environmental Status of Europe's seas by 2020. This will involve protecting the marine environment, preventing deterioration and restoring where practical, while using marine resources sustainably. The MSFD specifically requires spatial protection measures that contribute to a coherent and representative network of marine protected areas;

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<sup>1</sup> <http://wales.gov.uk/topics/environmentcountryside/consmanagement/marinefisheries/planning/?lang=en>;

## **International**

- the **Oslo-Paris Convention** for the Protection of the Marine Environment of the North East Atlantic (OSPAR): the countries bordering the North-East Atlantic, including the UK, have agreed to establish an ecologically coherent network of marine protected areas in the North-East Atlantic by 2012 and ensure it is well-managed by 2016;
- **Convention on Biological Diversity**: the commitment to establish a representative and effectively managed global system of marine protected areas.

## THE REPORTING REQUIREMENTS

9. Section 124 of the Marine Act sets out requirements for the appropriate authority, in this case the Welsh Ministers, to lay before the appropriate legislature, in this case the National Assembly for Wales, a report setting out the extent to which the network aims as described in section 123 of the Marine Act, have been achieved, and any further steps required.
10. The objectives as detailed in section 123 of the Marine Act are that Marine Conservation Zones together with European marine sites (Special Areas of Conservation, Special Protection Areas), Sites of Special Scientific Interest and Ramsar sites form a network that:
  - a) contributes to the conservation or improvement of the marine environment in the UK marine area;
  - b) the features which are protected by the sites comprised in the network represent the range of features present in the UK marine area;
  - c) the conservation of a feature may require the designation of more than one site.
11. Section 124 of the Marine Act also sets out detailed reporting requirements for information to be included on any Marine Conservation Zones that have been designated.
12. This report covers the parts of the network that the Welsh Ministers have responsibility for, the Welsh inshore waters, as establishing marine protected areas within these waters is a devolved responsibility. Welsh inshore waters comprise of the marine area out to 12 nautical miles from the shore. The other administrations have similar reporting requirements which collectively present the current UK picture for marine protected areas.
13. This first report covers the period ending 31 December 2012.



## CURRENT MARINE PROTECTED AREAS IN WALES

14. There are currently 129 MPAs in Wales, these include: 11 Special Areas of Conservation; 10 Special Protection Areas<sup>2</sup>; 103 Sites of Special Scientific Interest; 4 Ramsar sites and 1 Marine Nature Reserve. There are currently no Marine Conservation Zones in Wales. The existing suites of MPAs in Wales make a significant contribution towards the conservation of the marine environment, the representation and replication of features.
15. Summary information on Welsh MPAs is detailed in Box 1 and a map of Welsh MPAs is provided in Figure 1. Although each MPA exists as an independently qualifying site, in practice many of the sites are overlapping<sup>3</sup> reflecting the differing objectives and frameworks governing the site selection processes for the different designations.

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<sup>2</sup> Of the 10 SPAs in Welsh waters, only 6 are estuarine or truly maritime sites where the bird species depend upon the marine environment within the site and hence qualify as OSPAR MPA. As a result only 6 of the SPAs have been included in the MPA calculations in Box 1 and the network assessment.

<sup>3</sup> The figures in Box 1 have taken these overlapping sites into account.

## Box 1. Summary of coverage by MPAs in Welsh Seas (out to 12 nautical miles)

### Summary of coverage by MPAs in Welsh Seas (MHW to 12 nm)

#### Number of sites

SAC = 11

SPA = 6\*

SSSI = 103

Ramsar = 4

MNR = 1\*\*

#### Total number of MPAs = 125

#### Area of Welsh seas under designation

Welsh seas (MHW – 12nm limit) = 15,942 km<sup>2</sup>

SAC = 5,007 km<sup>2</sup>

SPA = 1,314 km<sup>2</sup>

SSSI = 421 km<sup>2</sup>

Ramsar = 240 km<sup>2</sup>

MNR = 13 km<sup>2</sup>

#### Total MPA network = 5,592 km<sup>2</sup>

#### Percentage of Welsh seas under designation

SAC = 31.41%

SPA = 8.08%

SSSI = 2.64%

Ramsar = 1.21%

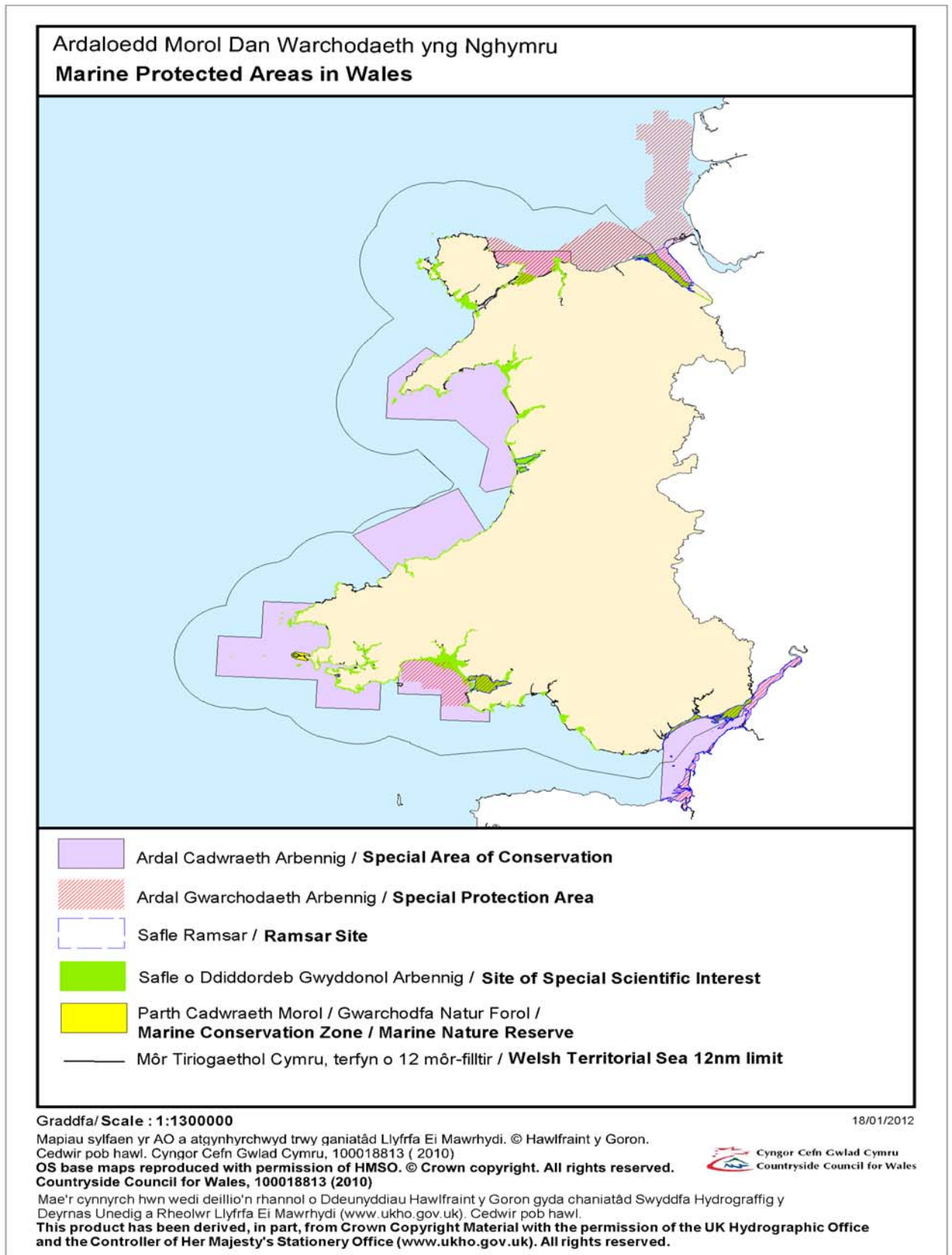
MNR = 0.08%

#### Total MPA network = 35.08%

\*Of the 10 SPAs in Welsh waters, only 6 are estuarine or truly maritime sites where the bird species depend upon the marine environment within the site and hence qualify as OSPAR MPA. As a result only 6 of the SPAs have been included in the MPA calculations and network assessment.

\*\*MNR will become an MCZ once the MCZ provisions in the Marine and Coastal Act (2009) are commenced.

**Figure 1. Marine Protected Areas in Welsh waters.**



## **Special Protection Areas**

16. There are 10 Special Protection Areas (SPAs) within Welsh waters including 3 cross border sites with England (the Severn Estuary, the Dee Estuary and Liverpool Bay). Of these 6 SPAs are estuarine or truly maritime sites where the bird species depend upon the marine environment within the site. These 6 SPAs are considered to contribute to the MPA network.
17. These sites have been identified under the Wild Birds Directive and protect areas identified as being of international importance for the breeding, feeding, wintering or the migration of rare and vulnerable bird species found within Europe. The Wild Birds Directive does not set out formal selection criteria for SPAs, so the Joint Nature Conservation Committee has developed selection guidelines in association with the country statutory nature conservation bodies and government departments in the UK. These guidelines provide the basis for identifying the “most suitable territories in area and number” as required by the Wild Birds Directive.
18. A full list of SPAs in Welsh waters and their associated marine interests is provided in Annex 1 at Table 1.

## **Special Areas of Conservation**

19. There are 11 of Special Areas of Conservation (SACs) within Welsh waters providing protection for a range of habitats and species of European importance, including 2 cross border sites with England (the Severn Estuary and the Dee Estuary). These sites have been identified in line with the Habitats Directive and protect plants, animals and habitats that are considered rare, special or threatened within Europe.
20. The Habitats Directive provides for the setting up of a coherent European ecological network of SACs and SPAs, known as the Natura 2000 network. The aim of this network is to enable the natural habitat types and the habitats of the species to be maintained or restored to a favourable conservation status. The Habitats Directive introduces the principles of sufficiency, natural range and proportionality to indicate the number and area of SACs required to contribute significantly to maintain or restoring favourable conservation status

and be in proportion to the occurrence of that habitat or species within a Member State territory. The network of SACs within the UK area may therefore protect marine features in more than one site to ensure that the principles of natural range, sufficiency and proportionality are met

21. A full list of SACs and their marine interests is provided at Annex 1 at Table 2.

## **RAMSAR**

22. There are 4 Ramsar sites in Wales that have a marine component, in all cases these sites coincides with a SAC and/or SPA designation; the Severn Estuary, the Burry Inlet, Cors Fochno and Dyfi and the Dee Estuary . This overlap of designations highlights where complex or important areas of ecological importance may be designated under a number of different national or international principles to protect the range and features present.
23. Ramsar sites are wetlands of international importance, designated under the Ramsar Convention. Wetlands are defined as including areas of marine water the depth of which at low tide does not exceed six metres, they may also incorporate banks of a stream, river, pond or watercourse and coastal zones adjacent to the wetlands, and islands or bodies of marine water deeper than six metres at low tide lying within the wetlands.
24. Sites are identified using criteria that recognises whether:
  - sites contain representative, rare or unique wetland types;
  - sites are of international importance for conserving biological diversity (including species, ecological communities and specific criteria based on waterbirds, fish or other taxa).
25. We have not included a list of Ramsar sites and marine interests within this report as they are underpinned by other designations which protect the overall interests of the designations. It is Welsh Government policy that Ramsar sites must be afforded the same consideration as Natura 2000 sites.

### **Sites of Special Scientific Interest**

26. There are 103 Sites of Special Scientific Interest (SSSIs) in Wales with marine interests covering 421km<sup>2</sup> protecting a wide variety of habitats, such as honeycomb worm reefs and seagrass beds.
27. SSSIs are a national suite of sites providing protection for species, habitats and geological or physiographical features of importance within the UK. These sites are also used to underpin other national and international nature conservation designations. SSSIs protect important features such as saltmarsh, reef and muddy gravels. They protect geological features such as coastal geomorphology, exposed rock formations and fossils in the marine or intertidal area.
28. A SSSI designation may extend into intertidal areas, and sometimes boundaries extend more widely within estuaries and other enclosed waters and therefore can contain marine components.
29. A full list of SSSIs within Wales that contain marine features is provided at Annex 1 in Table 3.

### **Marine Nature Reserve**

30. There is 1 Marine Nature Reserve (MNR) in Welsh waters, Skomer MNR which has been designated under the Wildlife and Countryside Act 1981. Upon commencement of the Part V of the Marine Act in Wales the Marine Conservation Zone (MCZ) designation powers will supersede the MNR powers and Skomer MNR will automatically convert to become Skomer MCZ.
31. There are currently no MCZs in Welsh waters.

## **ASSESSMENT OF EXISTING MARINE PROTECTED AREAS AGAINST SECTION 123 OF THE MARINE ACT 2009**

32. The UK administrations have committed to establishing marine protected areas and achieving an ecologically coherent network of marine protected areas through a number of international agreements. Linking marine protected areas together into an ecologically coherent network, supported by wider environmental management measures will achieve benefits more effectively than individual marine protected areas can alone. The existing suite of marine protected areas in Wales consists of European Marine Sites, SSSIs, Ramsar sites with marine components and Skomer MNR. Together our existing marine protected areas make a significant contribution to the UK network and plans to develop and select MCZs will build on existing protected areas towards achieving a network of marine protected areas in the UK.
  
33. A judgment of the sufficiency of the network of SACs is made by the European Commission in cooperation with Member States at a biogeographic level. Sufficiency is looked at in terms of three key questions; that the amount of the national resource is adequately covered, that the geographic spread of the resource is reflected in the site network and that any variation in biological communities is covered. Based on our current understanding of the evidence, the Welsh Government considers that it has completed its SAC network. There is no similar process for SPAs for birds, but we are required to classify all suitable territories as SPAs.
  
34. The existing suite of sites in Wales represents the full range of habitats and the majority of species. The majority of habitats in Wales are covered by one or more marine protected area and for some of the habitats that are present in just one or two sites this is a reflection of the rarity of the habitat rather than lack of replication. Ensuring features are protected in more than one site assists in increasing the resilience of features to change, and increases their protection within the UK marine area.
  
35. The marine protected areas UK network, and Wales' contribution to it is not considered complete. We recognised that some species are not covered in

existing sites that sites may not be well connected and features may not be adequately replicated.



## **FURTHER WORK**

### **European Marine Sites**

36. The UK already has 107 SACs and 107 SPAs with marine components in place and, upon completion, European Marine Sites will provide a valuable contribution to the UK marine protected areas network by helping to ensure the range of features present in the UK marine area are protected whilst also contributing more widely to the Natura 2000 network across the European Union.
37. Based on our current understanding of the evidence, the Welsh Government considers that the SAC network in Welsh waters is complete.
38. To develop further Wales' SPA contribution to the network, the Welsh Government is working with the Countryside Council for Wales to complete the seaward extension of 3 seabird colonies at Grassholm SPA, Skokholm and Skomer SPA and the Aberdaron Coast & Bardsey Island SPA. The seaward extensions will give protection to the marine waters adjacent to these colonies used for preening, bathing, displaying and other maintenance behaviour for Razorbill, Atlantic puffin, Northern gannet, Manx shearwater and Common guillemot.
39. The need for wholly marine SPAs, in addition to the colony extensions, is being considered at a UK level which includes looking at inshore aggregations of non-breeding waterbirds and offshore seabird aggregations. The aim of this collaborative programme will see all suitable territories for seabirds identified and classified, ensuring adequate protection is afforded to seabirds in the UK. The species being considered as part of this work include the Little egret, Little gull, Arctic tern, Sandwich tern and Little tern.

### **Marine Conservation Zones**

40. Marine Conservation Zones are a new type of marine protected area for the protection and conservation of marine biodiversity. In Wales we can create Marine Conservation Zones (MCZs) in Welsh waters up to 12 nautical miles from the shore.

41. In 2009 the Welsh Government established the Marine Conservation Zones Project Wales<sup>4</sup> to take this work forward. Earlier this year, between April and July 2012, the Welsh Government started a staged public engagement exercise setting out the science behind 10 potential highly protected site options. The consultation focused on gathering more information and views from people:
- about how they use and enjoy the marine environment;
  - how they might be affected by a highly protected designation; and
  - how any effects could be minimized.
42. We received a large number of detailed responses providing a wealth of information about the social, cultural and economic make up of local coastal communities across Wales.
43. We are now undertaking a period of additional work to reflect on and fully explore all the information received. This additional work is in line with our planned staged approach to listen to feedback at each stage, respond and then seek further views from all interested parties before deciding on next steps. A Task and Finish Team has been established within the Welsh Government to advise and make recommendations by April 2013 on how to take forward MCZs in Wales in order to contribute to a wider network of marine protected areas.
44. There will be further consultation, especially with local communities, on the outcome of this work to inform how to proceed with MCZs in Wales.

### **MPA Management**

45. In order to contribute to the conservation or improvement of the marine environment in the UK marine area, Welsh MPAs need to be in good condition and they need to be under effective management to keep them that way. If sites are not in good condition, management arrangements and measures need to be put in place that allows them to be restored.

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<sup>4</sup><http://wales.gov.uk/topics/environmentcountryside/consmanagement/marinefisheries/conservation/protected/conservationzones/nextsteps/?lang=en>;

46. We are working towards a comprehensive and up to date assessment of the condition of all our MPAs and MPA features in Wales, and a comprehensive assessment of how effectively the sites are being managed. This will be considered as part of the MPA Management Review in partnership with the Countryside Council for Wales and then Natural Resources Wales. Other initiatives that will contribute to this work and our understanding of management and condition include:

- CCW's (NRW's) Special Sites Programme;
- Article 17 reporting under the Habitats Directive;
- Condition monitoring for MNR;
- Condition monitoring for SSSIs.

#### **Working with the rest of UK**

47. We will work with the other UK administrations to consider the most appropriate method to assess the completion of the network and Wales' contribution to it. This will need to link to both our network commitments under the Marine Act and the wider OSPAR network. We are actively working across the UK administrations to agree on an approach which links all marine protected area programmes in the UK.

## Annex 1

**Table 1 Special Protection Areas and marine features in Wales**

**Table 1 Special Protection Areas and marine features**

Species marked with \* are birds that are qualifying, but which do not utilise the marine part of the SPA. These are not included in the network assessment.

SPAs marked with \*\* have not been included in the network assessment<sup>5</sup>.

Species marked with \*\*\* were identified as potential qualifying features as part of the 2001 SPA review and as potential features have been included in the network assessment.

SPA	Marine Feature
<b>Aber Dyfrdwy / Dee Estuary SPA</b>	Northern Pintail <i>Anas acuta</i> Eurasian Teal <i>Anas crecca</i> Eurasian widgeon <i>Anas penelope</i> Sanderling <i>Calidris alba</i> Dunlin <i>Calidris alpina</i> Red Knot <i>Calidris canutus</i> Common oystercatcher <i>Haematopus ostralegus</i> Bar-tailed godwit <i>Limosa lapponica</i> Black-tailed godwit <i>Limosa limosa</i> Eurasian curlew <i>Numenius arquata</i> Great cormorant <i>Phalacrocorax carbo</i> Grey plover <i>Pluvialis squatarola</i> Common tern <i>Sterna hirundo</i> Little tern* <i>Sterna albifrons</i> Sandwich tern <i>Sterna sandwichensis</i> Common Shelduck <i>Tadorna tadorna</i> Common redshank <i>Tringa tetanus</i> Mallard <i>Anas platyrhynchos</i> ***
<b>Bae Caerfyrddin / Carmarthen Bay SPA</b>	Common scoter <i>Melanitta nigra</i>
<b>Burry Inlet SPA</b>	Northern Pintail <i>Anas acuta</i> Northern Shoveler <i>Anas clypeata</i> Eurasian Teal <i>Anas crecca</i> Eurasian widgeon <i>Anas penelope</i> Dunlin <i>Calidris alpina</i> Red Knot <i>Calidris canutus</i> Common oystercatcher <i>Haematopus ostralegus</i> Eurasian curlew <i>Numenius arquata</i> Grey plover <i>Pluvialis squatarola</i> Common Shelduck <i>Tadorna tadorna</i> Common redshank <i>Tringa tetanus</i> Black-tailed godwit <i>Limosa limosa</i> ***

<sup>5</sup> Of the 10 SPAs in Welsh waters, only 6 are estuarine or truly maritime sites where the bird species depend upon the marine environment within the site and hence qualify as OSPAR MPA. As a result only 6 of the SPAs have been included in the network assessment.

<b>Dyfi Estuary / Aber Dyfi **</b>	Greenland white-fronted goose* <i>Anser albifrons flavirostris</i>
<b>Glannau Aberdaron and Ynys Enlli/ Aberdaron Coast and Bardsey **</b>	Manx Shearwater <i>Puffinus puffinus</i> Red-billed Chough <i>Pyrrhocorax pyrrhocorax</i>
<b>Liverpool Bay SPA / Bae Lerpwl (Wales) SPA</b>	Red-throated diver <i>Gavia stellata</i> Common scoter <i>Melanitta nigra</i>
<b>Môr Hafren / Severn Estuary SPA</b>	Gadwall* <i>Anas strepera</i> Greater white-fronted goose* <i>Anser albifrons albifrons</i> Dunlin <i>Calidris alpina</i> Common shelduck <i>Tadorna tadorna</i> Common redshank <i>Tringa totanus</i> Bewicks swan* <i>Cygnus columbianus</i> Lapwing* <i>Vanellus vanellus</i> Pochard* <i>Aythya ferina</i> Tufted duck* <i>Aythya fuligula</i> Northern Pintail <i>Anas acuta</i> *** Northern Shoveler <i>Anas clypeata</i> *** Eurasian Teal <i>Anas crecca</i> *** Eurasian widgeon <i>Anas Penelope</i> *** Mallard <i>Anas platyrhynchos</i> *** Ring plover <i>Charadrius hiaticula</i> *** Common oystercatcher <i>Haematopus</i> *** Eurasian curlew <i>Numenius arquata</i> *** Grey plover <i>Pluvialis squatarola</i> ***
<b>Ramsey and St David`s Peninsula Coast **</b>	Red-billed Chough* <i>Pyrrhocorax pyrrhocorax</i>
<b>Traeth Lafan / Lavan Sands SPA</b>	Common oystercatcher* <i>Haematopus ostralegus</i> Eurasian curlew* <i>Numenius arquata</i> Great crested grebe* <i>Podiceps cristatus</i>
<b>Ynys Feurig, Cemlyn Bay and The Skerries **</b>	Roseate tern* <i>Sterna dougallii</i> Common tern* <i>Sterna hirundo</i> Arctic tern* <i>Sterna paradisaea</i> Sandwich tern* <i>Sterna sandvichensis</i>

**Table 2 Special Areas of Conservation and marine features in Wales**

**Qualifying habitats and species**

<b>Annex I Habitats</b>	<b>Annex II Species</b>
Sandbanks which are slightly covered by sea water all the time	Bottlenose dolphin ( <i>Tursiops truncatus</i> )
Estuaries	Harbour porpoise ( <i>Phocoena Phocoena</i> )
Mudflats and sandflats not covered by seawater at low tide	Grey seal ( <i>Halichoerus grypus</i> )
Coastal lagoons <sup>6</sup>	Common seal ( <i>Phoca vitulina</i> )
Large shallow inlets and bays	Sea lamprey ( <i>Petromyzon marinus</i> )
Reefs	Allis shad ( <i>Alosa alosa</i> )
Submarine structures made by leaking gases	Twaite shad ( <i>Alosa fallax</i> )
Submerged or partially submerged sea caves	Otter ( <i>Lutra lutra</i> )
Annual vegetation of drift lines	
Salicornia and other annuals colonising mud and sand	
Spartina swards ( <i>Spartinion maritimae</i> )	
Atlantic salt meadows <sup>7</sup> ( <i>Glauco-Puccinellietalia maritimae</i> )	
Mediterranean and thermo-Atlantic halophilous scrubs <sup>8</sup> ( <i>Sarcocornetea fruticosi</i> )	

**List of SACs**

<b>SAC</b>	<b>Marine Feature</b>
<b>Y Fenai a Bae Conwy/ Menai Strait and Conwy Bay</b>	Reefs
	Mudflats and sandflats not covered by seawater at low tide
	Sandbanks which are slightly covered by seawater all the time
	Large shallow inlets and bays
	Submerged or partially submerged sea caves
<b>Dee Estuary/ Aber Dyfrdwy</b>	Atlantic salt meadows ( <i>Glauco-Puccinellietalia maritimae</i> )
	<i>Salicornia</i> and other annuals colonising mud and sand
	Mudflats and sandflats not covered by seawater at low tide
	Annual vegetation of drift lines
	Estuaries
	<i>Petromyzon marinus</i> – sea lamprey
<b>Pen Llyn a`r Sarnau/</b>	Coastal lagoons

<sup>6</sup>Except where landwards of H Highest Astronomical Tide and not directly connected to the sea.

<sup>7</sup> except where landwards of Highest Astronomical Tide

<sup>8</sup> except where landwards of Highest Astronomical Tide

SAC	Marine Feature
<b>Lleyn Peninsula and the Sarnau</b>	Estuaries
	Large shallow inlets and bays
	Reefs
	Sandbanks which are slightly covered by seawater all the time
	Atlantic salt meadows ( <i>Glaucopuccinellietalia maritimae</i> )
	Mudflats and sandflats not covered by seawater at low tide
	Submerged or partially submerged sea caves
	<i>Salicornia</i> and other annuals colonising mud and sand
	<i>Halichoerus grypus</i> – grey seal
	<i>Lutra lutra</i> – otter
	<i>Tursiops truncatus</i> – bottlenose dolphin
<b>Carmarthen Bay and Estuaries/ Bae Caerfyrddin ac Aberoedd</b>	Atlantic salt meadows ( <i>Glaucopuccinellietalia maritimae</i> )
	Estuaries
	<i>Salicornia</i> and other annuals colonising mud and sand
	<i>Alosa fallax</i> – Twaite shad
	Large shallow inlets and bays
	Mudflats and sandflats not covered by seawater at low tide
	Sandbanks which are slightly covered by seawater all the time
	<i>Petromyzon marinus</i> – sea lamprey
	<i>Alosa alosa</i> – Allis shad
	<i>Lutra lutra</i> – otter
	<b>Pembrokeshire Marine/ Sir Benfro Forol</b>
Estuaries	
Large shallow inlets and bays	
Atlantic salt meadows ( <i>Glaucopuccinellietalia maritimae</i> )	
Coastal lagoons	
Mudflats and sandflats not covered by seawater at low tide	
Sandbanks which are slightly covered by seawater all the time	
Submerged or partially submerged sea caves	
<i>Halichoerus grypus</i> – grey seal	
<i>Alosa fallax</i> – Twaite shad	
<i>Alosa alosa</i> – Allis shad	
<i>Petromyzon marinus</i> – sea lamprey	
<i>Lutra lutra</i> – otter	

SAC	Marine Feature
<b>Cardigan Bay/ Bae Ceredigion</b>	Reefs
	Sandbanks which are slightly covered by seawater all the time
	Submerged or partially submerged sea caves
	<i>Tursiops truncatus</i> – bottlenose dolphin
	<i>Halichoerus grypus</i> – grey seal
	<i>Petromyzon marinus</i> – sea lamprey
<b>Severn Estuary/ Môr Hafren</b>	Atlantic salt meadows ( <i>Glaucopuccinellietalia maritima</i> )
	Estuaries
	Mudflats and sandflats not covered by seawater at low tide
	Sandbanks which are slightly covered by seawater all the time
	Reefs
	<i>Alosa fallax</i> – Twaite shad
	<i>Petromyzon marinus</i> – sea lamprey
<b>Glannau Môn: Cors heli / Anglesey Coast: Saltmarsh</b>	Atlantic salt meadows ( <i>Glaucopuccinellietalia maritima</i> )
	<i>Salicornia</i> and other annuals colonising mud and sand
	Estuaries
	Mudflats and sandflats not covered by seawater at low tide
<b>Bae Cemlyn/ Cemlyn Bay</b>	Coastal lagoons
<b>Cynffig/ Kenfig</b>	Atlantic salt meadows ( <i>Glaucopuccinellietalia maritima</i> )
<b>Arfordir Calchfaen de Orllewin Cymru / Limestone Coast of South West Wales</b>	Submerged or partially submerged sea caves



**Table 3 Sites of Special Scientific Interest with marine features in Wales**

SSSI Name	Feature	Common Name
Aber Afon Conwy/ Conwy Estuary(SSSI)	Estuaries	
Aber Afon Conwy/Conwy Estuary(SSSI)	Rockpools	
Aber Afon Conwy/Conwy Estuary(SSSI)	Soft piddock bored substrata	
Aber Mawddach/Mawddach Estuary(SSSI)	<i>Tringa totanus</i>	Common redshank
Aber Mawddach/Mawddach Estuary(SSSI)	Inter-tidal	
Aber Mawddach/Mawddach Estuary(SSSI)	Salt-marsh	
Aber Mawddach/Mawddach Estuary(SSSI)	<i>Lutra lutra</i>	Otter
Aber Mawddach/Mawddach Estuary(SSSI)	Sheltered mud	
Aber Taf / Taf Estuary(SSSI)	Salt-marsh	
Aber Taf / Taf Estuary(SSSI)	<i>Alosa alosa</i>	Allis shad
Aber Taf / Taf Estuary(SSSI)	<i>Alosa fallax</i>	Twait shad
Aberarth-carreg Wylan(SSSI)	<i>Halichoerus grypus</i>	Grey seal
Aberarth-carreg Wylan(SSSI)	<i>Tursiops truncatus</i>	Bottlenose dolphin
Aberarth-carreg Wylan(SSSI)	Caves and overhangs	
Aberarth-carreg Wylan(SSSI)	Exposed rock	
Aberarth-carreg Wylan(SSSI)	Moderately exposed rock	
Aberarth-carreg Wylan(SSSI)	Rockpools	
Aberarth-carreg Wylan(SSSI)	Sand influenced biogenic reefs	
Aberarth-carreg Wylan(SSSI)	<i>Pectenogammarus planicrurus</i>	An amphipod
Afon Dyfrdwy (River Dee)(SSSI)	Salt-marsh	
Afon Dyfrdwy (River Dee)(SSSI)	<i>Lampetra fluviatilis</i>	River lamprey
Afon Dyfrdwy (River Dee)(SSSI)	<i>Osmerus eperlanus</i>	European smelt
Afon Dyfrdwy (River Dee)(SSSI)	<i>Petromyzon marinus</i>	Sea lamprey
Afon Dyfrdwy (River Dee)(SSSI)	<i>Salmo salar</i>	Atlantic salmon
Afon Dyfrdwy (River Dee)(SSSI)	<i>Lutra lutra</i>	Otter
Afon Teifi(SSSI)	Inter-tidal	
Afon Teifi(SSSI)	Salt-marsh	

SSSI Name	Feature	Common Name
Afon Teifi(SSSI)	Lampetra fluviatilis	River lamprey
Afon Teifi(SSSI)	Petromyzon marinus	Sea lamprey
Afon Teifi(SSSI)	Salmo salar	Atlantic salmon
Afon Teifi(SSSI)	Lutra lutra	Otter
Afon Teifi(SSSI)	Tursiops truncatus	Bottlenose dolphin
Afon Tywi(SSSI)	Salt-marsh	
Afon Tywi(SSSI)	Alosa alosa	Allis shad
Afon Tywi(SSSI)	Alosa fallax	Twait shad
Afon Tywi(SSSI)	Lutra lutra	Otter
Allt Wen a Traeth Tanybwllch(SSSI)	Sand influenced biogenic reefs	
Allt Wen a Traeth Tanybwllch(SSSI)	Pectenogammarus planicrurus	An amphipod
Arfordir Abereiddi(SSSI)	Halichoerus grypus	Grey seal
Arfordir Abereiddi(SSSI)	Caves and overhangs	
Arfordir Abereiddi(SSSI)	Exposed rock	
Arfordir Abereiddi(SSSI)	Rockpools	
Arfordir Abereiddi(SSSI)	Silled saline lagoon	
Arfordir Gogleddol Penmon(SSSI)	Caves and overhangs	
Arfordir Gogleddol Penmon(SSSI)	Moderately exposed rock	
Arfordir Gogleddol Penmon(SSSI)	Rockpools	
Arfordir Gogleddol Penmon(SSSI)	Soft piddock bored substrata	
Arfordir Marros-Pentywyn / Marros-Pendine Coast(SSSI)	Exposed sand	
Arfordir Marros-Pentywyn / Marros-Pendine Coast(SSSI)	Soft piddock bored substrata	
Arfordir Niwawl - Aber bach/ Newgale to Little Haven Coast(SSSI)	Caves and overhangs	
Arfordir Niwawl - Aber bach/ Newgale to Little Haven Coast(SSSI)	Rockpools	
Arfordir Niwawl - Aber bach/ Newgale to Little Haven Coast(SSSI)	Surge gullies	
Arfordir Niwawl - Aber bach/ Newgale to Little Haven Coast(SSSI)	Under-boulders	
Arfordir Pen-bre / Pembrey Coast(SSSI)	Calidris alba	Sanderling
Arfordir Pen-bre / Pembrey Coast(SSSI)	Haematopus ostralegus	Common oystercatcher
Arfordir Pen-bre / Pembrey Coast(SSSI)	Salt-marsh	

SSSI Name	Feature	Common Name
Arfordir Pen-bre / Pembrey Coast(SSSI)	Alosa alosa	Allis shad
Arfordir Pen-bre / Pembrey Coast(SSSI)	Alosa fallax	Twait shad
Arfordir Pen-bre / Pembrey Coast(SSSI)	Exposed sand	
Arfordir Pen-bre / Pembrey Coast(SSSI)	Moderately exposed sand	
Arfordir Pen-bre / Pembrey Coast(SSSI)	Rockpools	
Arfordir Penrhyn Angle / Angle Peninsula Coast(SSSI)	Gigartina pistillata	a red seaweed
Arfordir Penrhyn Angle / Angle Peninsula Coast(SSSI)	Caves and overhangs	
Arfordir Penrhyn Angle / Angle Peninsula Coast(SSSI)	Rockpools	
Arfordir Penrhyn Angle / Angle Peninsula Coast(SSSI)	Soft piddock bored substrata	
Arfordir Penrhyn Angle / Angle Peninsula Coast(SSSI)	Tide-swept algae	
Arfordir Penrhyn Angle / Angle Peninsula Coast(SSSI)	Under-boulders	
Arfordir Saundersfoot-Telpyn/Saundersfoot-Telpyn Coast(SSSI)	Exposed sand	
Arfordir Saundersfoot-Telpyn/Saundersfoot-Telpyn Coast(SSSI)	Rockpools	
Beddmanarch-Cymyran(SSSI)	Charadrius hiaticula	Common ringed plover
Beddmanarch-Cymyran(SSSI)	Tringa nebularia	Common greenshank
Beddmanarch-Cymyran(SSSI)	Inter-tidal	
Beddmanarch-Cymyran(SSSI)	Salt-marsh	
Beddmanarch-Cymyran(SSSI)	Eel grass	
Beddmanarch-Cymyran(SSSI)	Muddy gravel	
Beddmanarch-Cymyran(SSSI)	Sheltered mud	
Beddmanarch-Cymyran(SSSI)	Tide-swept algae	
Blackpill, Swansea(SSSI)	Calidris alba	Sanderling
Blackpill, Swansea(SSSI)	Charadrius hiaticula	Common ringed plover
Blackpill, Swansea(SSSI)	Muddy gravel	
Borth-Clarach	Moderately exposed rock	
Borth-Clarach	Sand influenced biogenic reefs	
Bracelet Bay(SSSI)	Sand influenced biogenic reefs	
Broadwater(SSSI)	Salt-marsh	
Broadwater(SSSI)	Isolated saline lagoon	

SSSI Name	Feature	Common Name
Burry Inlet and Loughor Estuary(SSSI)	Anas acuta	Northern Pintail
Burry Inlet and Loughor Estuary(SSSI)	Anas clypeata	Northern Shoveler
Burry Inlet and Loughor Estuary(SSSI)	Anas crecca	Eurasian Teal
Burry Inlet and Loughor Estuary(SSSI)	Anas penelope	Eurasian widgeon
Burry Inlet and Loughor Estuary(SSSI)	Arenaria interpres	Ruddy turnstone
Burry Inlet and Loughor Estuary(SSSI)	Calidris alpina	Dunlin
Burry Inlet and Loughor Estuary(SSSI)	Calidris canutas	Red Knot
Burry Inlet and Loughor Estuary(SSSI)	Haematopus ostralegus	Common oystercatcher
Burry Inlet and Loughor Estuary(SSSI)	Numenius arquata	Eurasian curlew
Burry Inlet and Loughor Estuary(SSSI)	Pluvialis apricaria	European golden plover
Burry Inlet and Loughor Estuary(SSSI)	Pluvialis squatarola	Grey plover
Burry Inlet and Loughor Estuary(SSSI)	Tadorna tadorna	Common shelduck
Burry Inlet and Loughor Estuary(SSSI)	Salt-marsh	
Burry Inlet and Loughor Estuary(SSSI)	Eel grass	
Burry Inlet and Loughor Estuary(SSSI)	Mixed substrata	
Burry Inlet and Loughor Estuary(SSSI)	Moderately exposed sand	
Burry Inlet and Loughor Estuary(SSSI)	Rockpools	
Burry Inlet and Loughor Estuary(SSSI)	Sheltered mud	
Burry Inlet and Loughor Estuary(SSSI)	Ophelia bicornis	A bristleworm
Castlemartin Cliffs and Dunes	Gigartina pistillata	A red seaweed
Castlemartin Cliffs and Dunes	Exposed rock	
Castlemartin Cliffs and Dunes	Moderately exposed rock	
Castlemartin Cliffs and Dunes	Rockpools	
Castlemartin Cliffs and Dunes	Soft piddock bored substrata	
Caswell Bay(SSSI)	Moderately exposed rock	
Caswell Bay(SSSI)	Sand influenced biogenic reefs	
Cemlyn Bay	Percolation saline lagoon	
Coedydd Afon Menai(SSSI)	Chalk and very soft rock	
Craigyfulfran & Clarach(SSSI)	Sand influenced biogenic reefs	

SSSI Name	Feature	Common Name
Creigiau Aberarth-Morfa(SSSI)	Sand influenced biogenic reefs	
Creigiau Cwm-Ceriw a Ffos-las (Morfa Bychan)(SSSI)	Sand influenced biogenic reefs	
Creigiau Pen y graig(SSSI)	Sand influenced biogenic reefs	
Creigiau Rhiwledyn / Little Ormes Head(SSSI)	Caves and overhangs	
Creigiau Rhiwledyn / Little Ormes Head(SSSI)	Moderately exposed rock	
Creigiau Rhiwledyn / Little Ormes Head(SSSI)	Rockpools	
Creigiau Rhiwledyn / Little Ormes Head(SSSI)	Soft piddock bored substrata	
Creigiau Rhiwledyn / Little Ormes Head(SSSI)	Under-boulders	
Crymlyn Burrows(SSSI)	Salt-marsh	
Cynffig/Kenfig(SSSI)	Rockpools	
Cynffig/Kenfig(SSSI)	Sand influenced biogenic reefs	
Cynffig/Kenfig(SSSI)	Soft piddock bored substrata	
Dale and South Marloes Coast(SSSI)	Gigartina pistillata	A red seaweed
Dale and South Marloes Coast(SSSI)	Halichoerus grypus	Grey seal
Dale and South Marloes Coast(SSSI)	Caves and overhangs	
Dale and South Marloes Coast(SSSI)	Chalk and very soft rock	
Dale and South Marloes Coast(SSSI)	Exposed rock	
Dale and South Marloes Coast(SSSI)	Moderately exposed rock	
Dale and South Marloes Coast(SSSI)	Rockpools	
De Porth Sain Ffraidd/St Bride's Bay South(SSSI)	Halichoerus grypus	Grey seal
De Porth Sain Ffraidd/St Bride's Bay South(SSSI)	Caves and overhangs	
De Porth Sain Ffraidd/St Bride's Bay South(SSSI)	Rockpools	
De Porth Sain Ffraidd/St Bride's Bay South(SSSI)	Tide-swept algae	
De Porth Sain Ffraidd/St Bride's Bay South(SSSI)	Under-boulders	
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Anas acuta	Northern Pintail
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Anas crecca	Eurasian Teal
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Anas penelope	Eurasian widgeon
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Calidris alpina	Dunlin
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Calidris canutas	Red Knot

SSSI Name	Feature	Common Name
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Charadrius hiaticula	Common ringed plover
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Haematopus ostralegus	Common oystercatcher
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Limosa lapponica	Bar-tailed godwit
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Limosa limosa	Black-tailed godwit
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Numenius arquata	Eurasian curlew
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Phalacrocorax carbo	Great cormorant
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Pluvialis squatarola	Grey plover
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Podiceps cristatus	Great crested grebe
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Sterna hirundo	Common tern
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Sterna sandvicensis	Sandwich tern
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Tadorna tadorna	Common shelduck
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Tringa totanus	Common redshank
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Salt-marsh	
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Lampetra fluviatilis	River lamprey
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Osmerus eperlanus	European smelt
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Petromyzon marinus	Sea lamprey
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Estuaries	
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Moderately exposed sand	
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Rockpools	
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Sand influenced biogenic reefs	
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Soft piddock bored substrata	
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Ophelia bicornis	A bristleworm
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Thia scutellata	Thumbnail crab
Dyfi(SSSI)	Anas penelope	Eurasian widgeon
Dyfi(SSSI)	Breeding bird assemblage of sand-dunes and saltmarshes	
Dyfi(SSSI)	Tringa totanus	Common redshank
Dyfi(SSSI)	Inter-tidal	
Dyfi(SSSI)	Salt-marsh	

SSSI Name	Feature	Common Name
Dyfi(SSSI)	Lutra lutra	Otter
Dyfi(SSSI)	Estuaries	
Dyfi(SSSI)	Moderately exposed sand	
Dyfi(SSSI)	Muddy gravel	
Dyfi(SSSI)	Sheltered mud	
East Aberthaw Coast(SSSI)	Rockpools	
East Aberthaw Coast(SSSI)	Under-boulders	
East Aberthaw Coast(SSSI)	Convoluta roscoffensis	A flatworm
Flat Holm	Sand influenced biogenic reefs	
Freshwater East Cliffs to Skrinkle Haven(SSSI)	Caves and overhangs	
Freshwater East Cliffs to Skrinkle Haven(SSSI)	Rockpools	
Freshwater East Cliffs to Skrinkle Haven(SSSI)	Soft piddock bored substrata	
Freshwater East Cliffs to Skrinkle Haven(SSSI)	Pectenogammarus planicrurus	An amphipod
Glanllynau a Glannau Pen-ychain i Gricieth(SSSI)	Caves and overhangs	
Glanllynau a Glannau Pen-ychain i Gricieth(SSSI)	Mixed substrata	
Glanllynau a Glannau Pen-ychain i Gricieth(SSSI)	Rockpools	
Glanllynau a Glannau Pen-ychain i Gricieth(SSSI)	Sand influenced biogenic reefs	
Glanllynau a Glannau Pen-ychain i Gricieth(SSSI)	Soft piddock bored substrata	
Glanllynau a Glannau Pen-ychain i Gricieth(SSSI)	Under-boulders	
Glannau Aberdaron(SSSI)	Caves and overhangs	
Glannau Aberdaron(SSSI)	Exposed rock	
Glannau Aberdaron(SSSI)	Rockpools	
Glannau Penmon - Biwmares(SSSI)	Caves and overhangs	
Glannau Penmon - Biwmares(SSSI)	Mixed substrata	
Glannau Penmon - Biwmares(SSSI)	Muddy gravel	
Glannau Penmon - Biwmares(SSSI)	Soft piddock bored substrata	
Glannau Penmon - Biwmares(SSSI)	Tide-swept algae	
Glannau Penmon - Biwmares(SSSI)	Under-boulders	
Glannau Porthaethwy(SSSI)	Caves and overhangs	

SSSI Name	Feature	Common Name
Glannau Porthaethwy(SSSI)	Mixed substrata	
Glannau Porthaethwy(SSSI)	Muddy gravel	
Glannau Porthaethwy(SSSI)	Rockpools	
Glannau Porthaethwy(SSSI)	Sheltered rock	
Glannau Porthaethwy(SSSI)	Tide-swept algae	
Glannau Rhoscolyn(SSSI)	Inter-tidal	
Glannau Rhoscolyn(SSSI)	Salt-marsh	
Glannau Rhoscolyn(SSSI)	Eel grass	
Glannau Rhoscolyn(SSSI)	Exposed rock	
Glannau Tonfanau i Friog(SSSI)	Mixed substrata	
Glannau Tonfanau i Friog(SSSI)	Rockpools	
Glannau Tonfanau i Friog(SSSI)	Sand influenced biogenic reefs	
Glannau Ynys Gybi/ Holy Island Coast(SSSI)	Inter-tidal	
Glannau Ynys Gybi/ Holy Island Coast(SSSI)	Caves and overhangs	
Glannau Ynys Gybi/ Holy Island Coast(SSSI)	Rockpools	
Glannau Ynys Gybi/ Holy Island Coast(SSSI)	Under-boulders	
Glannau Ynys Gybi/ Holy Island Coast(SSSI)	Stryphus ponderosus	A sponge
Glaslyn(SSSI)	Salt-marsh	
Gower Coast: Rhossili to Porteynon	Caves and overhangs	
Gower Coast: Rhossili to Porteynon	Rockpools	
Gower Coast: Rhossili to Porteynon	Soft piddock bored substrata	
Grassholm / Ynys Gwales	Halichoerus grypus	Grey seal
Grassholm / Ynys Gwales	Exposed rock	
Gronant Dunes and Talacre Warren	Calidris alba	Sanderling
Gronant Dunes and Talacre Warren	Phalacrocorax carbo	Great cormorant
Gronant Dunes and Talacre Warren	Inter-tidal	
Gronant Dunes and Talacre Warren	Salt-marsh	
Gronant Dunes and Talacre Warren	Exposed sand	
Gwydir Bay(SSSI)	Soft piddock bored substrata	



SSSI Name	Feature	Common Name
Hook Wood(SSSI)	Salt-marsh	
Horton, Eastern and Western Slade(SSSI)	Sand influenced biogenic reefs	
Lydstep Head to Tenby Burrows(SSSI)	Caves and overhangs	
Lydstep Head to Tenby Burrows(SSSI)	Soft piddock bored substrata	
Lydstep Head to Tenby Burrows(SSSI)	Tide-swept algae	
Merthyr Mawr(SSSI)	Salt-marsh	
Merthyr Mawr(SSSI)	Sand influenced biogenic reefs	
Milford Haven Waterway(SSSI)	Anas crecca	Eurasian Teal
Milford Haven Waterway(SSSI)	Anas penelope	Eurasian widgeon
Milford Haven Waterway(SSSI)	Calidris alpina	Dunlin
Milford Haven Waterway(SSSI)	Numenius arquata	Eurasian curlew
Milford Haven Waterway(SSSI)	Tachybaptus ruficollis	Little grebe
Milford Haven Waterway(SSSI)	Tadorna tadorna	Common shelduck
Milford Haven Waterway(SSSI)	Salt-marsh	
Milford Haven Waterway(SSSI)	Osmerus eperlanus	European smelt
Milford Haven Waterway(SSSI)	Lutra lutra	Otter
Milford Haven Waterway(SSSI)	Caves and overhangs	
Milford Haven Waterway(SSSI)	Eel grass	
Milford Haven Waterway(SSSI)	Mixed substrata	
Milford Haven Waterway(SSSI)	Moderately exposed rock	
Milford Haven Waterway(SSSI)	Moderately exposed sand	
Milford Haven Waterway(SSSI)	Muddy gravel	
Milford Haven Waterway(SSSI)	Rockpools	
Milford Haven Waterway(SSSI)	Sheltered mud	
Milford Haven Waterway(SSSI)	Sheltered rock	
Milford Haven Waterway(SSSI)	Silled saline lagoon	
Milford Haven Waterway(SSSI)	Tide-swept algae	
Milford Haven Waterway(SSSI)	Under-boulders	
Milford Haven Waterway(SSSI)	Alkmaria romijni	Tentacled lagoon worm

SSSI Name	Feature	Common Name
Milford Haven Waterway(SSSI)	Gammarus chevreuxi	An amphipod
Monknash Coast(SSSI)	Sand influenced biogenic reefs	
Monknash Coast(SSSI)	Soft piddock bored substrata	
Morfa Dyffryn(SSSI)	Salt-marsh	
Morfa Dyffryn(SSSI)	Sand influenced biogenic reefs	
Morfa Harlech(SSSI)	Anas acuta	Northern Pintail
Morfa Harlech(SSSI)	Breeding bird assemblage of sand-dunes and saltmarshes	
Morfa Harlech(SSSI)	Salt-marsh	
Morfa Harlech(SSSI)	Lutra lutra	Otter
Morfa Harlech(SSSI)	Exposed sand	
Morfa Harlech(SSSI)	Moderately exposed sand	
Morfa Harlech(SSSI)	Muddy gravel	
Morfa Uchaf, Dyffryn Conwy(SSSI)	Salt-marsh	
Mynydd Penarfynnydd(SSSI)	Rockpools	
Mynydd Tir y Cwmwd a'r Glannau at Garreg yr Imbill(SSSI)	Caves and overhangs	
Mynydd Tir y Cwmwd a'r Glannau at Garreg yr Imbill(SSSI)	Muddy gravel	
Mynydd Tir y Cwmwd a'r Glannau at Garreg yr Imbill(SSSI)	Soft piddock bored substrata	
Mynydd Tir y Cwmwd a'r Glannau at Garreg yr Imbill(SSSI)	Pectenogammarus planicrurus	An amphipod
Newborough Warren - Ynys Llanddwyn(SSSI)	Anas acuta	Northern Pintail
Newborough Warren - Ynys Llanddwyn(SSSI)	Salt-marsh	
Newborough Warren - Ynys Llanddwyn(SSSI)	Moderately exposed sand	
Newborough Warren - Ynys Llanddwyn(SSSI)	Rockpools	
Newborough Warren - Ynys Llanddwyn(SSSI)	Ophelia bicornis	A bristleworm
Newport Cliffs(SSSI)	Caves and overhangs	
Newport Cliffs(SSSI)	Rockpools	
Newport Cliffs(SSSI)	Sand influenced biogenic reefs	
Oxwich Bay(SSSI)	Salt-marsh	
Oxwich Bay(SSSI)	Exposed sand	

SSSI Name	Feature	Common Name
Pen y Gogarth / Great Ormes Head(SSSI)	Caves and overhangs	
Pen y Gogarth / Great Ormes Head(SSSI)	Moderately exposed rock	
Pen y Gogarth / Great Ormes Head(SSSI)	Rockpools	
Pen y Gogarth / Great Ormes Head(SSSI)	Soft piddock bored substrata	
Pen y Gogarth / Great Ormes Head(SSSI)	Under-boulders	
Penard Valley(SSSI)	Salt-marsh	
Penarth Coast	Rockpools	
Penarth Coast	Sand influenced biogenic reefs	
Penarth Coast	Soft piddock bored substrata	
Penarth Coast	Tide-swept algae	
Penrhynoedd Llangadwaladr(SSSI)	Exposed rock	
Penrhynoedd Llangadwaladr(SSSI)	Rockpools	
Penrhynoedd Llangadwaladr(SSSI)	Tide-swept algae	
Penrhynoedd Llangadwaladr(SSSI)	Under-boulders	
Porth Ceiriad, Porth Neigwl ac Ynysoedd Sant Tudwal(SSSI)	Caves and overhangs	
Porth Ceiriad, Porth Neigwl ac Ynysoedd Sant Tudwal(SSSI)	Exposed rock	
Porth Ceiriad, Porth Neigwl ac Ynysoedd Sant Tudwal(SSSI)	Rockpools	
Porth Ceiriad, Porth Neigwl ac Ynysoedd Sant Tudwal(SSSI)	Tide-swept algae	
Porth Ceiriad, Porth Neigwl ac Ynysoedd Sant Tudwal(SSSI)	Stelletta grubii	A sponge
Porth Dinllaen i Borth Pistyll(SSSI)	Eel grass	
Porth Dinllaen i Borth Pistyll(SSSI)	Moderately exposed sand	
Porth Dinllaen i Borth Pistyll(SSSI)	Rockpools	
Porth Towyn i Borth Wen(SSSI)	Caves and overhangs	
Porth Towyn i Borth Wen(SSSI)	Moderately exposed rock	
Porth Towyn i Borth Wen(SSSI)	Rockpools	
Puffin Island - Ynys Seiriol	Soft piddock bored substrata	
Puffin Island - Ynys Seiriol	Under-boulders	
Pwll-Du Head and Bishopston Valley(SSSI)	Sand influenced biogenic reefs	
Ramsey / Ynys Dewi	Halichoerus grypus	Grey seal

SSSI Name	Feature	Common Name
Ramsey / Ynys Dewi	Caves and overhangs	
Ramsey / Ynys Dewi	Exposed rock	
Ramsey / Ynys Dewi	Rockpools	
Ramsey / Ynys Dewi	Surge gullies	
Ramsey / Ynys Dewi	Tide-swept algae	
Ramsey / Ynys Dewi	Under-boulders	
Ramsey / Ynys Dewi	Thymosia guernei	Asponge
Rhosneigr Reefs(SSSI)	Inter-tidal	
Rhosneigr Reefs(SSSI)	Caves and overhangs	
Rhosneigr Reefs(SSSI)	Rockpools	
Rhosneigr Reefs(SSSI)	Under-boulders	
Severn Estuary(SSSI)	Anas acuta	Northern Pintail
Severn Estuary(SSSI)	Anas clypeata	Northern Shoveler
Severn Estuary(SSSI)	Anas crecca	Eurasian Teal
Severn Estuary(SSSI)	Anas penelope	Eurasian widgeon
Severn Estuary(SSSI)	Calidris alpina	Dunlin
Severn Estuary(SSSI)	Charadrius hiaticula	Common ringed plover
Severn Estuary(SSSI)	Limosa limosa	Black-tailed godwit
Severn Estuary(SSSI)	Numenius arquata	Eurasian curlew
Severn Estuary(SSSI)	Pluvialis apricaria	European golden plover
Severn Estuary(SSSI)	Pluvialis squatarola	Grey plover
Severn Estuary(SSSI)	Tadorna tadorna	Common shelduck
Severn Estuary(SSSI)	Tringa totanus	Common redshank
Severn Estuary(SSSI)	Salt-marsh	
Severn Estuary(SSSI)	Alosa alosa	Allis shad
Severn Estuary(SSSI)	Alosa fallax	Twait shad
Severn Estuary(SSSI)	Anguilla anguilla	
Severn Estuary(SSSI)	Lampetra fluviatilis	River lamprey
Severn Estuary(SSSI)	Petromyzon marinus	Sea lamprey

SSSI Name	Feature	Common Name
Severn Estuary(SSSI)	Salmo salar	Atlantic salmon
Severn Estuary(SSSI)	Eel grass	
Severn Estuary(SSSI)	Estuaries	
Severn Estuary(SSSI)	Rockpools	
Severn Estuary(SSSI)	Sand influenced biogenic reefs	
Severn Estuary(SSSI)	Tide-swept algae	
Severn Estuary(SSSI)	Gammarus chevreuxi	An amphipod
Severn Estuary(SSSI)	Gammarus insensibilis	An amphipod
Severn Estuary(SSSI)	Tenellia adspersa	A seaslug
Skokholm	Halichoerus grypus	Grey seal
Skokholm	Tide-swept algae	
Skomer Island and Middleholm	Halichoerus grypus	Grey seal
Skomer Island and Middleholm	Exposed rock	
Skomer Island and Middleholm	Surge gullies	
Southerndown Coast(SSSI)	Caves and overhangs	
Southerndown Coast(SSSI)	Sand influenced biogenic reefs	
St. David's Peninsula Coast(SSSI)	Halichoerus grypus	Grey seal
St. David's Peninsula Coast(SSSI)	Exposed rock	
St. David's Peninsula Coast(SSSI)	Rockpools	
St. Margaret's Island(SSSI)	Caves and overhangs	
St. Margaret's Island(SSSI)	Soft piddock bored substrata	
St. Margaret's Island(SSSI)	Under-boulders	
Stackpole Quay - Trewent Point(SSSI)	Caves and overhangs	
Stackpole Quay - Trewent Point(SSSI)	Moderately exposed rock	
Stackpole Quay - Trewent Point(SSSI)	Rockpools	
Stackpole Quay - Trewent Point(SSSI)	Soft piddock bored substrata	
Stackpole(SSSI)	Lutra lutra	Otter
Stackpole(SSSI)	Caves and overhangs	
Stackpole(SSSI)	Rockpools	

SSSI Name	Feature	Common Name
Stackpole(SSSI)	Soft piddock bored substrata	
Strumble Head - Llechdafad Cliffs(SSSI)	Caves and overhangs	
Strumble Head - Llechdafad Cliffs(SSSI)	Exposed rock	
Strumble Head - Llechdafad Cliffs(SSSI)	Surge gullies	
Sully Island(SSSI)	Calidris alpina	Dunlin
Sully Island(SSSI)	Charadrius hiaticula	Common ringed plover
Sully Island(SSSI)	Pluvialis squatarola	Grey plover
Sully Island(SSSI)	Tringa totanus	Common redshank
Sully Island(SSSI)	Sand influenced biogenic reefs	
Tenby Cliffs and St. Catherine's Island	Caves and overhangs	
Tenby Cliffs and St. Catherine's Island	Exposed sand	
Tenby Cliffs and St. Catherine's Island	Soft piddock bored substrata	
The Offshore Islets of Pembrokeshire / Ynysoedd Glannau Penfro	Halichoerus grypus	Grey seal
The Offshore Islets of Pembrokeshire / Ynysoedd Glannau Penfro	Exposed rock	
The Skerries(SSSI)	Rockpools	
Tiroedd a Glannau Rhwng Cricieth ac Afon Glaslyn(SSSI)	Caves and overhangs	
Tiroedd a Glannau Rhwng Cricieth ac Afon Glaslyn(SSSI)	Eel grass	
Tiroedd a Glannau Rhwng Cricieth ac Afon Glaslyn(SSSI)	Moderately exposed sand	
Tiroedd a Glannau Rhwng Cricieth ac Afon Glaslyn(SSSI)	Rockpools	
Tiroedd a Glannau Rhwng Cricieth ac Afon Glaslyn(SSSI)	Sand influenced biogenic reefs	
Traeth Lafan(SSSI)	Haematopus ostralegus	Common oystercatcher
Traeth Lafan(SSSI)	Mergus serrator	
Traeth Lafan(SSSI)	Numenius arquata	Eurasian curlew
Traeth Lafan(SSSI)	Tringa totanus	Common redshank
Traeth Lafan(SSSI)	Eel grass	
Traeth Lafan(SSSI)	Moderately exposed sand	
Traeth Lafan(SSSI)	Rockpools	
Traeth Llanon(SSSI)	Sand influenced biogenic reefs	
Traeth Lligwy(SSSI)	Rockpools	

SSSI Name	Feature	Common Name
Twyni Chwitffordd, Morfa Landimor a Bae Brychdwn/ Whiteford Burrows etc(SSSI)	Haematopus ostralegus	Common oystercatcher
Twyni Chwitffordd, Morfa Landimor a Bae Brychdwn/ Whiteford Burrows etc(SSSI)	Salt-marsh	
Twyni Chwitffordd, Morfa Landimor a Bae Brychdwn Whiteford Burrows etc(SSSI)	Eel grass	
Twyni Chwitffordd, Morfa Landimor a Bae Brychdwn/ Whiteford Burrows etc(SSSI)	Exposed sand	
Twyni Chwitffordd, Morfa Landimor a Bae Brychdwn/ Whiteford Burrows etc(SSSI)	Rockpools	
Twyni Chwitffordd, Morfa Landimor a Bae Brychdwn/ Whiteford Burrows etc(SSSI)	Soft piddock bored substrata	
Twyni Chwitffordd, Morfa Landimor a Bae Brychdwn/ Whiteford Burrows etc(SSSI)	Tide-swept algae	
Twyni Chwitffordd, Morfa Landimor a Bae Brychdwn/ Whiteford Burrows etc(SSSI)	Ophelia bicornis	A bristleworm
Twyni Lacharn - Pentywyn / Laugharne - Pendine Burrows(SSSI)	Pluvialis apricaria	European golden plover
Twyni Lacharn - Pentywyn / Laugharne - Pendine Burrows(SSSI)	Lutra lutra	Otter
Twyni Lacharn - Pentywyn / Laugharne - Pendine Burrows(SSSI)	Exposed sand	
Twyni Lacharn - Pentywyn / Laugharne - Pendine Burrows(SSSI)	Moderately exposed sand	
Ty Croes(SSSI)	Rockpools	
Ty Croes(SSSI)	Surge gullies	
Tywyn Aberffraw(SSSI)	Salt-marsh	
Tywyn Aberffraw(SSSI)	Gammarus chevreuxi	An amphipod
Waterwynch Bay to Saundersfoot Harbour(SSSI)	Caves and overhangs	
Waterwynch Bay to Saundersfoot Harbour(SSSI)	Exposed sand	
Waterwynch Bay to Saundersfoot Harbour(SSSI)	Rockpools	
Waterwynch Bay to Saundersfoot Harbour(SSSI)	Tide-swept algae	
Wig Bach a'r Glannau i Borth Alwm	Caves and overhangs	

SSSI Name	Feature	Common Name
Wig Bach a'r Glannau i Borth Alwm	Rockpools	
Wig Bach a'r Glannau i Borth Alwm	Surge gullies	
Y Foryd(SSSI)	Anas penelope	Eurasian widgeon
Y Foryd(SSSI)	Eel grass	
Ynys Enlli	Caves and overhangs	
Ynys Enlli	Exposed rock	
Ynys Enlli	Rockpools	
Ynys Enlli	Under-boulders	
Ynys Feurig(SSSI)	Rockpools	
Ynys Feurig(SSSI)	Under-boulders	
Ynysoedd y Gwylanod, Gwylan Islands	Caves and overhangs	
Ynysoedd y Gwylanod, Gwylan Islands	Surge gullies	