



Llywodraeth Cymru
Welsh Government

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Welsh Government

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

February 2014

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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, in response to recommendation 10 of the Environment and Sustainability Committee's Marine Inquiry.

Recommendation 10: By the 31 December 2013, the Welsh Government should voluntarily lay before the Assembly a report that meets the requirement of section 124 of the Marine and Coastal Access Act 2009. This report should include an appraisal of the environmental status, governance and enforcement of existing marine protected areas.

2. 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 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 cover further steps needed to meet the network objectives, as well as specific details on any Marine Conservation Zones that have been designated.

3. The network objectives as detailed in section 123 of the Marine Act are that European marine sites (Special Areas of Conservation, Special Protection Areas), Sites of Special Scientific Interest and Ramsar sites form a network which contributes to the conservation or improvement of the marine environment in the UK marine area; where the features which are protected by the sites comprised in the network represent the range of features present in the UK marine area; and recognises the conservation of a feature may require the designation of more than one site. The Marine Act also provides the power to designate Marine Conservation Zones to make up any shortfalls in the network.

4. This report is being laid voluntarily under standing order 15.2.

5. This report covers the period ending 31 December 2013 and provides an update to the previous year's report¹. It relates to 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.

¹ <http://www.assemblywales.org/bus-home/bus-business-fourth-assembly-laid-docs/gen-ld9150-e.pdf?langoption=3&ttl=GEN-LD9150%20-%20Report%20to%20the%20National%20Assembly%20for%20Wales%20on%20Marine%20Protected%20Areas%20in%20Wales%20>

BACKGROUND

6. Marine Protected Areas (MPAs) designated in Wales will contribute to UK and international networks of MPAs where the biodiversity and wider benefits of a well-designed and well-managed network of sites are greater than from individually planned sites.

7. MPAs are just one of the ways in which the Welsh Government can protect and manage 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 to protect biodiversity.

8. 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;
- recognises the fact that conservation of a feature may require the designation of more than one site.

9. 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

10. 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 and for supporting sustainable use of our sea; these include a number of commitments for contributing to a coherent network of 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 seas².

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. As part of our programme of measures for achieving good environmental status we must contribute to a coherent and representative network of marine protected areas by the end of 2016.

² <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 and for it to be well-managed by 2016.
- **Convention on Biological Diversity**: the commitment to establish a representative and effectively managed global system of marine protected areas.

CURRENT MARINE PROTECTED AREAS IN WALES

11. There are currently 125 MPAs in Wales. These include:

- 11 Special Areas of Conservation;
- 6 Special Protection Areas;
- 103 Sites of Special Scientific Interest;
- 4 Ramsar sites; and
- 1 Marine Nature Reserve.

12. There are currently no Marine Conservation Zones (MCZs) in Welsh waters. The 10 sites that were consulted on in 2012 were formally withdrawn as announced by the Minister for Natural Resources and Food in a written statement on 18 July 2013.³

13. Summary information on Welsh MPAs is detailed in Box 1, and a map of Welsh MPAs is provided on page 9. Although each MPA exists as an independently qualifying site, in practice many of the sites are overlapping⁴ reflecting the differing objectives and frameworks governing the site selection processes for the different designations.

Special Areas of Conservation

14. There are 11 Special Areas of Conservation (SACs) within Welsh waters, 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 provide protection for a range of plants, animals and habitats that are considered rare, special or threatened within Europe.

15. 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.

³ <http://wales.gov.uk/about/cabinet/cabinetstatements/2013/mcz/?lang=en>

⁴ 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 km²

SAC = 5,007 km²

SPA = 1,314 km²

SSSI = 421 km²

Ramsar = 240 km²

MNR = 13 km²

Total MPA network = 5,592 km²

Percentage of Welsh seas under designation

SAC = 31.41%

SPA = 8.08%

SSSI = 2.64%

Ramsar = 1.21%

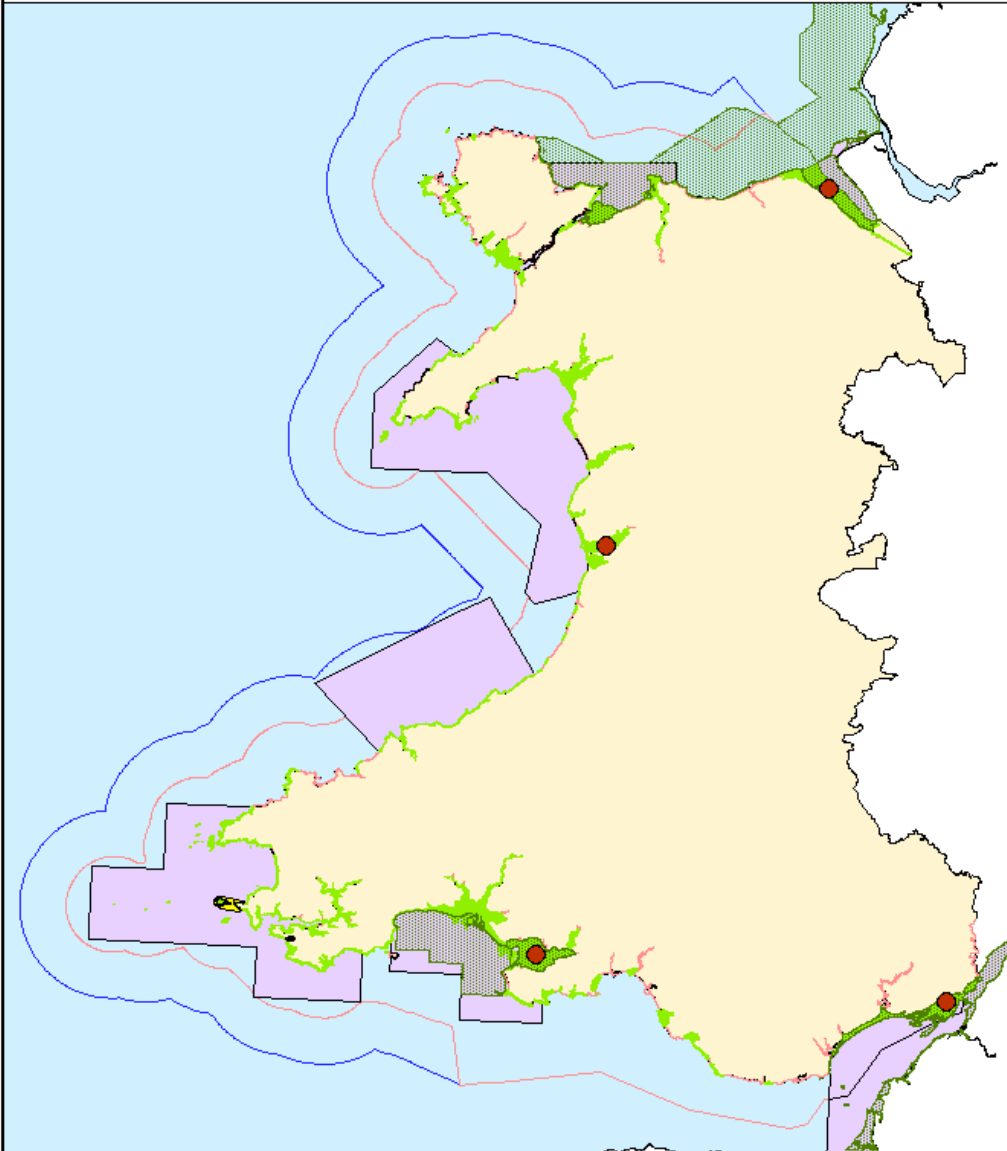
MNR = 0.08%








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.

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

Marine Protected Areas in Wales



- | | |
|--|---|
|  Ramsar Site (Boundaries not shown) |  Site of Special Scientific Interest |
|  Marine Nature Reserve |  6nm Boundary |
|  Special Protection Area |  12nm Boundary |
|  Special Area of Conservation | |

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 Cyfoeth Naturiol Cymru
Natural Resources Wales

16. 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. A full list of SACs in Wales and their marine interests is provided in the Annex at Table 2.

Special Protection Areas

17. There are 6 Special Protection Areas (SPAs) within Welsh waters that are either estuarine or truly maritime sites. These include 3 cross border sites with England (the Severn Estuary, the Dee Estuary and Liverpool Bay).

18. 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 (JNCC) 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.

19. A full list of SPAs in Welsh waters and their associated marine interests is provided in the Annex at Table 1.

Sites of Special Scientific Interest

20. There are 103 Sites of Special Scientific Interest (SSSIs) in Wales with marine components. They cover 421km² and protect a wide variety of habitats, such as honeycomb worm reefs and seagrass beds.

21. 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, reefs and muddy gravels. They also protect geological features such as coastal geomorphology, exposed rock formations and fossils in the marine or intertidal area.

22. Although primarily a terrestrial designation, there are instances where an 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.

23. A full list of SSSIs within Wales that contain marine components is provided in the Annex at Table 3.

Ramsar sites

24. There are 4 Ramsar sites in Wales that have a marine component. In all cases these sites coincide 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.

25. Ramsar sites are wetlands of international importance, designated under the Ramsar Convention of 1971. Wetlands are defined as including areas of marine water the depth of which at low tide does not exceed 6 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 6 metres at low tide lying within the wetlands.

26. Sites are identified using criteria that recognise whether:

- sites contain representative, rare or unique wetland types; and
- sites are of international importance for conserving biological diversity (including species, ecological communities and specific criteria based on waterbirds, fish or other taxa).

27. 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.

Marine Nature Reserve

28. 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. We intend to commence Part V of the Marine Act in 2014.

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

29. 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.

30. The UK is working towards making a contribution to a MPA network in the North East Atlantic⁵. A network in the North East Atlantic is in line with the OSPAR convention and is also consistent with the marine region in which the UK waters lie under the Marine Strategy Framework Directive.

31. There is no agreed definition of what a coherent network of MPAs will look like. However, the OSPAR Commission has developed a set of guiding principles which have been adopted by the UK administrations. These principles help us understand what the network will look like and help in interpreting the concept of ecological coherence. These principles are reflected within the MPA network objectives set out in section 123 of the Marine Act.

32. The OSPAR principles for guiding the design of the network are:

- i) Features – the range of habitats and species are represented within the network

- ii) Sufficiency – there is an adequate proportion of each feature's range in the network

⁵ UK Contribution to Ecologically Coherent MPA Network in the North East Atlantic:

[http://wales.gov.uk/topics/environmentcountryside/consmanagement/marinefisheries/conservation/protected/network-statement/?lang=en;](http://wales.gov.uk/topics/environmentcountryside/consmanagement/marinefisheries/conservation/protected/network-statement/?lang=en)

- iii) Connectivity– MPA are well distributed and there are sufficient linkages between MPAs
- iv) Resilience – there is adequate replication of features and the size of sites is sufficient to maintain integrity.
- v) Management – is effective so that the network contributes to the conservation and improvement of the marine environment.

33. A network of MPAs can be considered ecologically coherent if it satisfies the design principles.

34. We believe that the 125 MPAs in Wales make a significant contribution to an ecologically coherent network. However, we need to do more in Wales to strengthen our SPA contribution to the network. The Welsh Government has formally instructed Natural Resources Wales (NRW) to consult on 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 for preening, bathing, loafing, displaying and other maintenance behaviour for a variety of species including Atlantic puffin, Northern gannet, Manx shearwater and Common guillemot. The consultation is due to begin in early 2014. In line with best practice we are carrying out a socio-economic impact assessment of the proposed changes to each of the sites.

35. In addition the need for wholly marine SPAs is being considered at a UK level. This includes looking at inshore aggregations of non-breeding waterbirds⁶ and offshore seabird⁷ aggregations. The aim of this collaborative programme will see all suitable territories for seabirds identified. The species being considered as part of this work include the Little gull, Manx shearwater, Red-throated diver, Arctic tern, Sandwich tern and Little tern. If suitable territories are identified for these species then a full consultation on any proposed sites will follow.

⁶ Includes wildfowl and waders that live on and around the marine environment

⁷ Birds dependant upon the marine area for most of their life and generally only come on land to breed or roost

36. Alongside this work we intend to undertake an assessment of the existing MPAs in Wales. This will give us a proper understanding of our current contribution to the network and to compare it against the network principles. We will continue to work with the other UK administrations on 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 network in the North East Atlantic. We will use the outcome of the assessment to determine whether there are any additional gaps in the network that can be addressed in Wales.

37. Should any gaps be identified we will work collaboratively with a range of stakeholders to consider possible options for fulfilling Wales' contribution to a coherent network of MPAs.

38. This approach is in line with the findings of the MCZ Task and Finish Team. The Team produced a report⁸ which set out a number of recommendations for the way forward with MCZs in Wales. The Minister for Natural Resources and Food agreed with the recommendations and set out the next steps for MCZs in Wales in a written statement in July 2013.⁹

MPA MANAGEMENT

⁸ Report of the Task and Finish Team on MCZs in Wales, April 2013

[http://wales.gov.uk/topics/environmentcountryside/consmanagement/marinefisheries/conservation/protected/conservationzones/nextsteps/?lang=en;](http://wales.gov.uk/topics/environmentcountryside/consmanagement/marinefisheries/conservation/protected/conservationzones/nextsteps/?lang=en)

⁹ <http://wales.gov.uk/about/cabinet/cabinetstatements/2013/mcz/?lang=en>

39. 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. Following the work of the then Countryside Council for Wales in 2012 on a review of MPA management in Wales, NRW and the Welsh Government have agreed a series of shared principles for MPA management in Wales. Improving the effectiveness of MPA management and site condition requires:

- Leadership
- Co-ordination and Consistency
- Prioritisation
- Collaboration
- Communication

40. To begin delivery of these shared principles, the Welsh Government and NRW will create a Welsh MPA Management Steering Group to provide strategic co-ordination of MPA management in Welsh seas. The group's intention is to secure effective management of the Welsh MPA network, to safeguard marine biodiversity and deliver wider ecosystem and socio-economic benefits for Wales.

41. There are a number of initiatives that will inform the work of the Steering Group. One such is an EU-funded project called the LIFE Natura 2000 programme. This initiative will produce a strategic, prioritised and costed plan for conservation management and restoration of existing Welsh Natura 2000 sites. The initiative also has close links with NRW's Special Sites Programme. This programme uses an actions database to plan and communicate the delivery of actions for conservation management.

Annex

Table 1 Special Protection Areas with marine features in Wales

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.

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
Aber Dyfrdwy / Dee Estuary SPA	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 sandvichensis</i> Common Shelduck <i>Tadorna tadorna</i> Common redshank <i>Tringa tetanus</i> Mallard <i>Anas platyrhynchos</i> **
Bae Caerfyrddin / Carmarthen Bay SPA	Common scoter <i>Melanitta nigra</i>

Burry Inlet SPA	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> **
Liverpool Bay SPA / Bae Lerpwl (Wales) SPA	Red-throated diver <i>Gavia stellata</i> Common scoter <i>Melanitta nigra</i>
Môr Hafren / Severn Estuary SPA	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 ostralegus</i> ** Eurasian curlew <i>Numenius arquata</i> ** Grey plover <i>Pluvialis squatarola</i> **
Traeth Lafan / Lavan Sands SPA	Common oystercatcher* <i>Haematopus ostralegus</i> Eurasian curlew* <i>Numenius arquata</i> Great crested grebe* <i>Podiceps cristatus</i>

NRW will begin a consultation early in 2014 on seaward extensions to three seabird breeding colonies at Aberdaron Coast and Bardsey Island SPA, Skomer and Skokholm SPA and Grassholm SPA. Full details of the consultation will be available on NRW's website towards the end of January 2014.

Table 2 Special Areas of Conservation and marine features in Wales

Qualifying habitats and species

Annex I Habitats
Sandbanks which are slightly covered by sea water all the time
Estuaries
Mudflats and sandflats not covered by seawater at low tide
Coastal lagoons ¹⁰
Large shallow inlets and bays
Reefs
Submarine structures made by leaking gases
Submerged or partially submerged sea caves
Annual vegetation of drift lines
Salicornia and other annuals colonising mud and sand
Spartina swards (<i>Spartinion maritimae</i>)
Atlantic salt meadows ¹¹ (<i>Glauco-Puccinellietalia maritimae</i>)
Mediterranean and thermo-Atlantic halophilous scrubs ¹² (<i>Sarcocornetea fruticosi</i>)

Annex II Species
Bottlenose dolphin (<i>Tursiops truncatus</i>)
Harbour porpoise (<i>Phocoena phocoena</i>)
Grey seal (<i>Halichoerus grypus</i>)
Common seal (<i>Phoca vitulina</i>)
Sea lamprey (<i>Petromyzon marinus</i>)
Allis shad (<i>Alosa alosa</i>)
Twaite shad (<i>Alosa fallax</i>)
Otter (<i>Lutra lutra</i>)

¹⁰Except where landwards of Highest Astronomical Tide and not directly connected to the sea.

¹¹ except where landwards of Highest Astronomical Tide

¹² except where landwards of Highest Astronomical Tide

List of SACs

SAC	Marine Feature
Y Fenai a Bae Conwy/ Menai Strait and Conwy Bay	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
Dee Estuary/ Aber Dyfrdwy	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
Pen Llyn a`r Sarnau/ Lleyn Peninsula and the Sarnau	Coastal lagoons
	Estuaries
	Large shallow inlets and bays
	Reefs
	Sandbanks which are slightly covered by seawater all the time
	Atlantic salt meadows (<i>Glauco-Puccinellietalia maritimae</i>)
	Mudflats and sandflats not covered by seawater at low tide
	Submerged or partially submerged sea caves

SAC	Marine Feature
	<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
Carmarthen Bay and Estuaries/ Bae Caerfyrddin ac Aberoedd	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
Pembrokeshire Marine/ Sir Benfro Forol	Reefs
	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

SAC	Marine Feature
	<i>Alosa fallax</i> – Twaite shad
	<i>Alosa alosa</i> – Allis shad
	<i>Petromyzon marinus</i> – sea lamprey
	<i>Lutra lutra</i> – otter
Cardigan Bay/ Bae Ceredigion	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
Severn Estuary/ Môr Hafren	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
Glannau Môn: Cors heli / Anglesey Coast: Saltmarsh	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
Bae Cemlyn/ Cemlyn Bay	Coastal lagoons

SAC	Marine Feature
Cynffig/ Kenfig	Atlantic salt meadows (<i>Glauco-Puccinellietalia maritimae</i>)
Arfordir Calchfaen de Orllewin Cymru / Limestone Coast of South West Wales	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>	Twaite 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	

SSSI Name	Feature	Common Name
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	
Afon Teifi(SSSI)	<i>Lampetra fluviatilis</i>	River lamprey
Afon Teifi(SSSI)	<i>Petromyzon marinus</i>	Sea lamprey
Afon Teifi(SSSI)	<i>Salmo salar</i>	Atlantic salmon
Afon Teifi(SSSI)	<i>Lutra lutra</i>	Otter
Afon Teifi(SSSI)	<i>Tursiops truncatus</i>	Bottlenose dolphin
Afon Tywi(SSSI)	Salt-marsh	
Afon Tywi(SSSI)	<i>Alosa alosa</i>	Allis shad
Afon Tywi(SSSI)	<i>Alosa fallax</i>	Twaite shad
Afon Tywi(SSSI)	<i>Lutra lutra</i>	Otter

SSSI Name	Feature	Common Name
Allt Wen a Traeth Tanybwllch(SSSI)	Sand influenced biogenic reefs	
Allt Wen a Traeth Tanybwllch(SSSI)	<i>Pectenogammarus planicrurus</i>	An amphipod
Arfordir Abereiddi(SSSI)	<i>Halichoerus grypus</i>	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 Niwgwl - Aber bach/ Newgale to Little Haven Coast(SSSI)	Caves and overhangs	
Arfordir Niwgwl - Aber bach/ Newgale to Little Haven Coast(SSSI)	Rockpools	
Arfordir Niwgwl - Aber bach/ Newgale to Little Haven Coast(SSSI)	Surge gullies	
Arfordir Niwgwl - Aber bach/ Newgale to Little Haven Coast(SSSI)	Under-boulders	
Arfordir Pen-bre / Pembrey Coast(SSSI)	<i>Calidris alba</i>	Sanderling
Arfordir Pen-bre / Pembrey Coast(SSSI)	<i>Haematopus ostralegus</i>	Common oystercatcher

SSSI Name	Feature	Common Name
Arfordir Pen-bre / Pembrey Coast(SSSI)	Salt-marsh	
Arfordir Pen-bre / Pembrey Coast(SSSI)	<i>Alosa alosa</i>	Allis shad
Arfordir Pen-bre / Pembrey Coast(SSSI)	<i>Alosa fallax</i>	Twaite 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)	<i>Gigartina pistillata</i>	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)	<i>Charadrius hiaticula</i>	Common ringed plover
Beddmanarch-Cymyran(SSSI)	<i>Tringa nebularia</i>	Common greenshank
Beddmanarch-Cymyran(SSSI)	Inter-tidal	
Beddmanarch-Cymyran(SSSI)	Salt-marsh	
Beddmanarch-Cymyran(SSSI)	Eel grass	

SSSI Name	Feature	Common Name
Beddmanarch-Cymyran(SSSI)	Muddy gravel	
Beddmanarch-Cymyran(SSSI)	Sheltered mud	
Beddmanarch-Cymyran(SSSI)	Tide-swept algae	
Blackpill, Swansea(SSSI)	<i>Calidris alba</i>	Sanderling
Blackpill, Swansea(SSSI)	<i>Charadrius hiaticula</i>	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	
Burry Inlet and Loughor Estuary(SSSI)	<i>Anas acuta</i>	Northern Pintail
Burry Inlet and Loughor Estuary(SSSI)	<i>Anas clypeata</i>	Northern Shoveler
Burry Inlet and Loughor Estuary(SSSI)	<i>Anas crecca</i>	Eurasian Teal
Burry Inlet and Loughor Estuary(SSSI)	<i>Anas penelope</i>	Eurasian widgeon
Burry Inlet and Loughor Estuary(SSSI)	<i>Arenaria interpres</i>	Ruddy turnstone
Burry Inlet and Loughor Estuary(SSSI)	<i>Calidris alpina</i>	Dunlin
Burry Inlet and Loughor Estuary(SSSI)	<i>Calidris canutas</i>	Red Knot
Burry Inlet and Loughor Estuary(SSSI)	<i>Haematopus ostralegus</i>	Common oystercatcher

SSSI Name	Feature	Common Name
Burry Inlet and Loughor Estuary(SSSI)	<i>Numenius arquata</i>	Eurasian curlew
Burry Inlet and Loughor Estuary(SSSI)	<i>Pluvialis apricaria</i>	European golden plover
Burry Inlet and Loughor Estuary(SSSI)	<i>Pluvialis squatarola</i>	Grey plover
Burry Inlet and Loughor Estuary(SSSI)	<i>Tadorna tadorna</i>	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)	<i>Ophelia bicornis</i>	A bristleworm
Castlemartin Cliffs and Dunes	<i>Gigartina pistillata</i>	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	

SSSI Name	Feature	Common Name
Coedydd Afon Menai(SSSI)	Chalk and very soft rock	
Craigyfulfran & Clarach(SSSI)	Sand influenced biogenic reefs	
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)	<i>Gigartina pistillata</i>	A red seaweed
Dale and South Marloes Coast(SSSI)	<i>Halichoerus grypus</i>	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	

SSSI Name	Feature	Common Name
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)	<i>Halichoerus grypus</i>	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)	<i>Anas acuta</i>	Northern Pintail
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Anas crecca</i>	Eurasian Teal
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Anas penelope</i>	Eurasian widgeon
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Calidris alpina</i>	Dunlin
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Calidris canutus</i>	Red Knot
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Charadrius hiaticula</i>	Common ringed plover
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Haematopus ostralegus</i>	Common oystercatcher
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Limosa lapponica</i>	Bar-tailed godwit
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Limosa limosa</i>	Black-tailed godwit
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Numenius arquata</i>	Eurasian curlew
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Phalacrocorax carbo</i>	Great cormorant
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Pluvialis squatarola</i>	Grey plover

SSSI Name	Feature	Common Name
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Podiceps cristatus</i>	Great crested grebe
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Sterna hirundo</i>	Common tern
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Sterna sandvicensis</i>	Sandwich tern
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Tadorna tadorna</i>	Common shelduck
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Tringa totanus</i>	Common redshank
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	Salt-marsh	
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Lampetra fluviatilis</i>	River lamprey
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Osmerus eperlanus</i>	European smelt
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Petromyzon marinus</i>	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)	<i>Ophelia bicornis</i>	A bristleworm
Dee Estuary / Aber Afon Dyfrdwy(SSSI)	<i>Thia scutellata</i>	Thumbnail crab
Dyfi(SSSI)	<i>Anas penelope</i>	Eurasian widgeon
Dyfi(SSSI)	Breeding bird assemblage on sand-dunes and saltmarshes	

SSSI Name	Feature	Common Name
Dyfi(SSSI)	<i>Tringa totanus</i>	Common redshank
Dyfi(SSSI)	Inter-tidal	
Dyfi(SSSI)	Salt-marsh	
Dyfi(SSSI)	<i>Lutra lutra</i>	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)	<i>Convoluta roscoffensis</i>	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)	<i>Pectenogammarus planicrurus</i>	An amphipod
Glanllynnau a Glannau Pen-ychain i Gricieth(SSSI)	Caves and overhangs	
Glanllynnau a Glannau Pen-ychain i Gricieth(SSSI)	Mixed substrata	
Glanllynnau a Glannau Pen-ychain i Gricieth(SSSI)	Rockpools	

SSSI Name	Feature	Common Name
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	
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	

SSSI Name	Feature	Common Name
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)	<i>Stryphus ponderosus</i>	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	<i>Halichoerus grypus</i>	Grey seal
Grassholm / Ynys Gwales	Exposed rock	
Gronant Dunes and Talacre Warren	<i>Calidris alba</i>	Sanderling
Gronant Dunes and Talacre Warren	<i>Phalacrocorax carbo</i>	Great cormorant

SSSI Name	Feature	Common Name
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	
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)	<i>Anas crecca</i>	Eurasian Teal
Milford Haven Waterway(SSSI)	<i>Anas penelope</i>	Eurasian widgeon
Milford Haven Waterway(SSSI)	<i>Calidris alpina</i>	Dunlin
Milford Haven Waterway(SSSI)	<i>Numenius arquata</i>	Eurasian curlew
Milford Haven Waterway(SSSI)	<i>Tachybaptus ruficollis</i>	Little grebe
Milford Haven Waterway(SSSI)	<i>Tadorna tadorna</i>	Common shelduck
Milford Haven Waterway(SSSI)	Salt-marsh	
Milford Haven Waterway(SSSI)	<i>Osmerus eperlanus</i>	European smelt

SSSI Name	Feature	Common Name
Milford Haven Waterway(SSSI)	<i>Lutra lutra</i>	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)	<i>Alkmaria romijni</i>	Tentacled lagoon worm
Milford Haven Waterway(SSSI)	<i>Gammarus chevreuxi</i>	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	

SSSI Name	Feature	Common Name
Morfa Harlech(SSSI)	<i>Anas acuta</i>	Northern Pintail
Morfa Harlech(SSSI)	Breeding bird assemblage on sand-dunes and saltmarshes	
Morfa Harlech(SSSI)	Salt-marsh	
Morfa Harlech(SSSI)	<i>Lutra lutra</i>	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)	<i>Pectenogammarus planicrurus</i>	An amphipod
Newborough Warren - Ynys Llanddwyn(SSSI)	<i>Anas acuta</i>	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)	<i>Ophelia bicornis</i>	A bristleworm

SSSI Name	Feature	Common Name
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	
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	

SSSI Name	Feature	Common Name
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)	<i>Stelletta grubii</i>	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	<i>Halichoerus grypus</i>	Grey seal
Ramsey / Ynys Dewi	Caves and overhangs	
Ramsey / Ynys Dewi	Exposed rock	
Ramsey / Ynys Dewi	Rockpools	
Ramsey / Ynys Dewi	Surge gullies	

SSSI Name	Feature	Common Name
Ramsey / Ynys Dewi	Tide-swept algae	
Ramsey / Ynys Dewi	Under-boulders	
Ramsey / Ynys Dewi	<i>Thymosia guernei</i>	A sponge
Rhosneigr Reefs(SSSI)	Inter-tidal	
Rhosneigr Reefs(SSSI)	Caves and overhangs	
Rhosneigr Reefs(SSSI)	Rockpools	
Rhosneigr Reefs(SSSI)	Under-boulders	
Severn Estuary(SSSI)	<i>Anas acuta</i>	Northern Pintail
Severn Estuary(SSSI)	<i>Anas clypeata</i>	Northern Shoveler
Severn Estuary(SSSI)	<i>Anas crecca</i>	Eurasian Teal
Severn Estuary(SSSI)	<i>Anas penelope</i>	Eurasian widgeon
Severn Estuary(SSSI)	<i>Calidris alpina</i>	Dunlin
Severn Estuary(SSSI)	<i>Charadrius hiaticula</i>	Common ringed plover
Severn Estuary(SSSI)	<i>Limosa limosa</i>	Black-tailed godwit
Severn Estuary(SSSI)	<i>Numenius arquata</i>	Eurasian curlew
Severn Estuary(SSSI)	<i>Pluvialis apricaria</i>	European golden plover
Severn Estuary(SSSI)	<i>Pluvialis squatarola</i>	Grey plover
Severn Estuary(SSSI)	<i>Tadorna tadorna</i>	Common shelduck
Severn Estuary(SSSI)	<i>Tringa totanus</i>	Common redshank

SSSI Name	Feature	Common Name
Severn Estuary(SSSI)	Salt-marsh	
Severn Estuary(SSSI)	<i>Alosa alosa</i>	Allis shad
Severn Estuary(SSSI)	<i>Alosa fallax</i>	Twaite shad
Severn Estuary(SSSI)	<i>Anguilla anguilla</i>	European eel
Severn Estuary(SSSI)	<i>Lampetra fluviatilis</i>	River lamprey
Severn Estuary(SSSI)	<i>Petromyzon marinus</i>	Sea lamprey
Severn Estuary(SSSI)	<i>Salmo salar</i>	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)	<i>Gammarus chevreuxi</i>	An amphipod
Severn Estuary(SSSI)	<i>Gammarus insensibilis</i>	An amphipod
Severn Estuary(SSSI)	<i>Tenellia adspersa</i>	A sea slug
Skokholm	<i>Halichoerus grypus</i>	Grey seal
Skokholm	Tide-swept algae	
Skomer Island and Middleholm	<i>Halichoerus grypus</i>	Grey seal
Skomer Island and Middleholm	Exposed rock	

SSSI Name	Feature	Common Name
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)	<i>Halichoerus grypus</i>	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)	<i>Lutra lutra</i>	Otter
Stackpole(SSSI)	Caves and overhangs	
Stackpole(SSSI)	Rockpools	
Stackpole(SSSI)	Soft piddock bored substrata	
Strumble Head - Llechdafad Cliffs(SSSI)	Caves and overhangs	
Strumble Head - Llechdafad Cliffs(SSSI)	Exposed rock	

SSSI Name	Feature	Common Name
Strumble Head - Llechdafad Cliffs(SSSI)	Surge gullies	
Sully Island(SSSI)	<i>Calidris alpina</i>	Dunlin
Sully Island(SSSI)	<i>Charadrius hiaticula</i>	Common ringed plover
Sully Island(SSSI)	<i>Pluvialis squatarola</i>	Grey plover
Sully Island(SSSI)	<i>Tringa totanus</i>	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	<i>Halichoerus grypus</i>	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)	<i>Haematopus ostralegus</i>	Common oystercatcher
Traeth Lafan(SSSI)	<i>Mergus serrator</i>	Red-breasted merganser

SSSI Name	Feature	Common Name
Traeth Lafan(SSSI)	<i>Numenius arquata</i>	Eurasian curlew
Traeth Lafan(SSSI)	<i>Tringa totanus</i>	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	
Twyni Chwitffordd, Morfa Landimor a Bae Brychdwn/ Whiteford Burrows etc(SSSI)	<i>Haematopus ostralegus</i>	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	

SSSI Name	Feature	Common Name
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)	<i>Ophelia bicornis</i>	A bristleworm
Twyni Lacharn - Pentywyn / Laugharne - Pendine Burrows(SSSI)	<i>Pluvialis apricaria</i>	European golden plover
Twyni Lacharn - Pentywyn / Laugharne - Pendine Burrows(SSSI)	<i>Lutra lutra</i>	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)	<i>Gammarus chevreuxi</i>	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	
Wig Bach a'r Glannau i Borth Alwm	Rockpools	
Wig Bach a'r Glannau i Borth Alwm	Surge gullies	

SSSI Name	Feature	Common Name
Y Foryd(SSSI)	<i>Anas penelope</i>	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	