

Badger Cull Dropped in Favour of Vaccination

On the 20th March, the Welsh Government Environment Minister, John Griffiths, announced that he would not be implementing a cull of badgers as part of efforts to eradicate bovine TB in the intensive action area in North Pembrokeshire.

Speaking about his decision, the Minister said:

"This has been a difficult decision to take. In making it, I have considered the likely benefits that vaccination or culling could have. Any decision to cull would need to be justified on the basis that it would be necessary to eliminate or substantially reduce the incidence of bovine TB in cattle.

"I have considered the evidence provided to me, including scientific and legal advice and have noted the advice on potential benefit that might be obtained by vaccination or culling. At present I am not satisfied that a cull of badgers would be necessary to bring about a substantial reduction in cases of TB in cattle."

The Minister emphasised that TB eradication was a long term commitment that would require the application of new technologies and scientific developments as they became available. He had also asked the Chief Vet to convene a working group of experts to develop a cattle vaccination strategy so that best use could be made of such a vaccination once it became available.



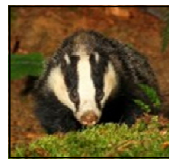
Photo: Jon Hawkins

Pembrokeshire Biodiversity Partnership

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The announcement was welcomed by the Wildlife Trust of South and West Wales, who stated that 'vaccination, alongside movement control and appropriate management is a progressive approach to disease control'. Rachel Sharp, CEO of the Wildlife

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Trusts Wales, said 'the decision opens the way for Wales to initiate a full scale vaccination programme that in the longer term will prove both sustainable and effective'.

The Farmer's Union of Wales has expressed concerns over the legal and scientific advice upon which the Minister's decision was based. In a letter to the Minister, FUW president Emyr Jones asked for the advice to be published. The FUW hold that vaccination is unproven in large scale trials, whereas culling programmes have consistently reduced instances of TB in cattle since the 1970s.

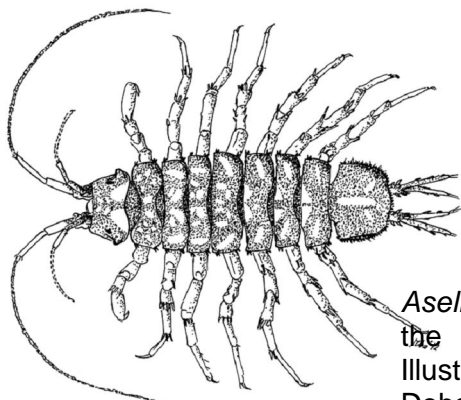
A cull of badgers in areas of England is still planned and it will be interesting to compare the efficacy of the approaches in the two countries.

The Minister's statement can be found at: <http://wales.gov.uk/docs/drah/publications/120320tboralstatementen.pdf>

Ant Rogers.
Biodiversity Implementation Officer

Identifying Invasive Shrimps – A New Key

Invasive, non-native species are one of the most serious threats to freshwater biodiversity, both globally and in Britain. Whilst many non-native species are relatively ecologically and economically benign, a minority can have much



Asellus aquaticus, the water slater. Illustration © M. Dobson/FBA 2012

Ant Rogers — Biodiversity Implementation Officer
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more serious consequences.

A particular cause for concern are the 'freshwater shrimps' (amphipods and isopods) which are often abundant in freshwaters and therefore important in freshwater food chains. Freshwater shrimps do not disperse easily between river basins, but can exploit human activities such as canals or water transfers, with serious effects on native biodiversity. As well as competing with native shrimps, invasive shrimps also threaten native animals and plants, for example by eating other invertebrates and fish eggs. Once established, there is no means of eradicating them. In the Netherlands, some ecosystems have experienced 'invasional meltdown' where most native species have been ousted and more than 95% of the biomass consists of invasive species.



Dikerogammarus villosus, the so-called 'killer shrimp'. Photo © M. Dobson/FBA 2012, reproduced with permission.

A recent example is the 'killer shrimp', *Dikerogammarus villosus*, which has spread rapidly across Europe since the construction of the Rhine-Main-Danube Canal in 1992 and has recently colonised Britain, including Cardiff Bay and Eglwys Nunnydd Reservoir. Strict biosecurity measures are in place at both sites with the support of all stakeholders, and an extensive Environment Agency monitoring programme has not found any further killer shrimp colonies in Wales.

As well as *D. villosus*, there are already six established non-native freshwater shrimp species in Britain (compared to just five native species). Two North American species, *Crangonyx pseudogracilis* and *Gammarus tigrinus*, are widespread in Britain, including Pembrokeshire. Another 15 invasive shrimp species are thought likely to colonise Britain in the near future. In order to improve our understanding of how to manage and restrict the spread of these species, we need to be able to identify them reliably.

Funded by DEFRA, the Freshwater Biological Association has produced a detailed, well illustrated key that includes all freshwater native and non-native species occurring in or likely to arrive in Britain. This publication will help us to target management activity and prevent false alarms and can be downloaded for free from the web link below:

www.fba.org.uk/downloads

More information about Check Clean Dry, DEFRA's Biosecurity campaign to restrict the spread of invasive aquatic species, can be found on the GB Non-Native Species Secretariat website:

<https://secure.fera.defra.gov.uk/nonnativespecies/index.cfm?sectionid=98>

Both websites also contain a wide range of useful information about invasive species as well as the wider freshwater environment.

Dr Tristan Hatton-Ellis

Freshwater Team Leader at CCW and Chair of the WBP Freshwater Ecosystem Group.



Biodiversity on Facebook!

Pembrokeshire Biodiversity Partnership has recently launched its own Facebook page. The idea is to provide a way of accessing the most up to date information on events, interesting reports and links to partner organisations. You can use the 'like' function to let us know which links you were particularly interested in.

Check out the new page at:

www.facebook.com/PembrokeshireBiodiversity



You can still use the official website at:

http://www.pembrokeshire.gov.uk/content.asp?nav=1626,109,135&parent_directory_id=646

and of course sign up to receive this free newsletter through the post or by email.

Contact the Biodiversity Implementation Officer for more details.

Ant Rogers

Biodiversity Implementation Officer



Ant Rogers — Biodiversity Implementation Officer
anthony.rogers@pembrokeshire.gov.uk 01437764551



Wythnos Bioamrywiaeth Cymru
Wales Biodiversity Week

Wales Biodiversity Week will be between the 9th and the 17th June this year. The Pembrokeshire Biodiversity Partnership will be running a stall at the Haverfordwest Farmer's Market on Friday 15th June. Come along and meet us for a good chat about biodiversity issues in Pembrokeshire.

Alternatively, why not take a walk in Pengelli woods with the Wildlife Trust of South & West Wales, or visit Skomer Island for the day? Details in the events section.

More events are being planned as this newsletter goes to press. For the latest information, visit the website at:

http://www.pembrokeshire.gov.uk/content.asp?nav=1626,109,135&parent_directory_id=646

or try our new Facebook page at:

www.facebook.com/PembrokeshireBiodiversity

Ant Rogers

Biodiversity Implementation Officer

Prince of Wales Feather Moss at Manor House Wildlife Park

Sam Bosanquet of CCW visited Manor House Wildlife Park in January this year and, "was amazed to be faced with a tree covered with the rare Prince of Wales Feather-moss (*Leptodon smithii*)" almost as soon as he entered the park at "the spectacular Sycamore by the entrance to the Wallaby enclosure."

Sam returned to the park in February and, working with Senior Keeper Paul Harry, they carried out a full survey of all the trees of the park. They found approximately 16 m sq of the Prince of Wales feather-moss on 10 trees. This is by far the largest colony in Wales, in both terms of area covered and the number of trees occupied.

Leptodon smithii has been added to section 42 of the Countryside & Rights of Way Act, identifying it as a high priority for conservation in Wales because of the decline in both population and range. It is a highly distinctive moss that got its common name from the resemblance of dry shoots to the Prince of Wales' crest. There are Welsh records from 16 sites, but many of these are old and *Leptodon* has not been seen since the 1970s at more than half of them.

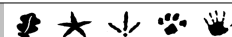


Leptodon smithii.
Photo: Sam Bosanquet

Sam noted that, "the remaining Glamorgan colony is tiny, leaving six populations in Pembrokeshire as the last toe-hold for this moss in Wales. Loss of mature trees coupled with a poor colonising ability are blamed for the decline of *Leptodon*, and the inability to reproduce may be particularly acute on the northern edge of the species' range.

Sam's report records that, "The trees at Manor House are thought to be ideal for the *Leptodon* population because they are sufficiently widely spaced for trunks to be sunny and warm for part of the day, but not as exposed as many hedgerow trees. Four other Pembrokeshire sites support relatively strong populations of *Leptodon*, and all of these are in sunny but sheltered valleys; a fifth colony, at Knowle crossroads, holds just a single 30x30 cm patch on a young Sycamore."

Another species of conservation significance recorded during the survey was the



tiny nationally scarce liverwort Rossetti's Pouncewort (*Cololejeunea rossettiana*) in the limestone outcrop near the Flamingo Pool and Bat Cave. Only two other populations of Rossetti's Pouncewort are known in Pembrokeshire - in limestone valleys at Bosherton and Manorbier and there are only two known sites in Glamorgan, with none in Carmarthenshire or Ceredigion, and fewer than 100 in the whole of the UK.

In all 65 species of moss (53 spp.) and liverwort (12 spp.) were recorded during the survey.

Glenda Wilkinson
Manor House Wildlife Park

Angling Litter Campaign

The Marine Conservation Society (MCS) are working in partnership with the Countryside Council for Wales, The Pembrokeshire Coast National Park Authority, National Trust, Environment Agency, Pembrokeshire Coastal Forum, Neptune's Army of Rubbish Cleaners (NARC), Keep Wales Tidy and Pembrokeshire Federation of Angling Coaches to tackle the problem of angling litter on the Pembrokeshire coast.



The extent of the issue has been highlighted by NARC, a group of volunteer divers who dive popular angling spots around the Coast and pick up the litter. For example, in one day divers collected 247 fishing weights and 450 hooks at Stackpole Quay and released 25 spidercrabs, 1 lobster and a dogfish entangled in discarded fishing line.

The project is being piloted in Pembrokeshire and Northern Ireland with a view to applying it to other areas of the Welsh coast if it is successful. The project will be launched during Pembrokeshire Fish Week.

Dr Lou Luddington
Marine Conservation Society



Victim of Angling Litter
Photo: Dave Kennard, NARC

Training Courses: May - August 2012

Date	Title	Information	Contact
4 th -8 th May	Woodland Conservation & Management Orielson FSC	Field Studies Council Course	Orielson Field Centre Phone: 01646 623920 enquiries.or@field-studies-council.org
4 th -8 th May	Introduction to Bird Identification Orielson FSC	Field Studies Council Course	Orielson Field Centre Phone: 01646 623920 enquiries.or@field-studies-council.org
8 th -12 th May	Coastal Plants of Pembrokeshire Orielson FSC	Field Studies Council Course	Orielson Field Centre Phone: 01646 623920 enquiries.or@field-studies-council.org
8 th -13 th May	The Art of Nature Photography Orielson FSC	Field Studies Council Course	Orielson Field Centre Phone: 01646 623920 enquiries.or@field-studies-council.org
8 th -13 th May	Historic Gardens Orielson FSC	Field Studies Council Course	Orielson Field Centre Phone: 01646 623920 enquiries.or@field-studies-council.org
12 th May	Small Mammal Identification & Survey Skills Parc Slip, Bridgend	Rob Strachen will cover survey methods for small Mammals such as Voles, Shrews & Hedgehogs. Wildlife Trusts of South & West Wales.	Marie Lindley Tel: 01656724100 Email: info@welshwildlife.org
12 th May	Introducing Lichens 1 Orielson FSC	Field Studies Council Course	Orielson Field Centre Phone: 01646 623920 enquiries.or@field-studies-council.org
19 th May	Introducing Lichens 2 Orielson FSC	Field Studies Council Course	Orielson Field Centre Phone: 01646 623920 enquiries.or@field-studies-council.org
26 th May	Basic insect Identification Parc Slip, Bridgend	An overview of the terrestrial insect groups of the UK, including field identification. Wildlife Trusts of South & West Wales.	Marie Lindley Tel: 01656724100 Email: info@welshwildlife.org
2 nd June	Vascular Plant Identification Parc Slip, Bridgend	Field identification of vascular plants in one of Wales' most important grassland sites. Wildlife Trusts of South & West Wales.	Marie Lindley Tel: 01656724100 Email: info@welshwildlife.org
30 th June	Fern Identification WWC Cilgerran	Prof. Barry Thomas will look at the ecology, life history and identification of British Ferns.	Marie Lindley Tel: 01656724100 Email: info@welshwildlife.org

Training Courses: May - August 2012 Continued

Date	Title	Information	Contact
20 th -24 th July	Pembrokeshire Summer Wildlife Orielton FSC	Field Studies Council Course	Orielton Field Centre Phone: 01646 623920 enquiries.or@field-studies-council.org
23 rd -27 th July	Identifying Sedges & Rushes Orielton FSC	Field Studies Council Course	Orielton Field Centre Phone: 01646 623920 enquiries.or@field-studies-council.org
28 th July	Reptile Ecology & Survey Skills Parc Slip, Bridgend	Dr Rhys Jones will look at the ecology and conservation of our native reptile species. Wildlife Trusts of South & West Wales.	Marie Lindley Tel: 01656724100 Email: info@welshwildlife.org
13 th -17 th August	Family Fun Week Orielton FSC	Field Studies Council Course	Orielton Field Centre Phone: 01646 623920 enquiries.or@field-studies-council.org

Biodiversity Events May - August 2012

Date	Title	Information	Contact
2 nd May	Skomer: Wild Island Martin's Haven & Skomer	Take a boat to the magical island where you will join a four-mile guided walk to discover its birds, wildflowers and history.	Pembrokeshire Coast National Park Authority Tel 01834 845040
5 th May	Wales Coast Path Official Opening	From 5 th May, it will be possible to walk the entire coast of Wales. Why not take the opportunity to try a section on this historic day?	For more information and maps, go to: http://www.ccw.gov.uk/enjoying-the-country/wales-coast-path.aspx
8 th May	Nature Walk Canaston Woods	A nature ramble through Minwear and Canaston Woods. Just over a mile long and lasting 1 - 2 hours, depending on what we see. Meet at 6.30 pm in the parking area just beyond Blackpool Mill, grid ref. SN059143. All welcome.	WTSWW Lynda Hickling Tel: 01834 810307 Email: lynda@thehicklings.co.uk
9 th May	Skomer: Wild Island Martin's Haven & Skomer	Take a boat to the magical island where you will join a four-mile guided walk to discover its birds, wildflowers and history.	Pembrokeshire Coast National Park Authority Tel 01834 845040
11 th - 13 th May	Spring Beach Clean Event Abermawr/ Aberbach & Martin's Haven	Join the Marine Conservation Society for a Spring beach clean.	To register, visit: www.mcsuk.org/foreverfish

Biodiversity Events May - August 2012

Date	Title	Information	Contact
15 th May	Ospreys in Pembrokeshire Foundry House Community Centre, Pembroke	A short, illustrated talk by Barry Potter about Osprey sightings in the county. All welcome. Doors open 7.15 pm.	WTSWW Lynda Hickling Tel: 01834 810307 Email: lynda@thehicklins.co.uk
19 th May	Welsh Wildlife Centre – A History Welsh Wildlife Centre, Cilgerran	Come and experience the fascinating history of the Teifi Marshes, walks, talks and so much more happening at the stunning Welsh Wildlife Centre.	WTSWW Tel: 01239 621200 Email: wwc@welshwildlife.org
19 th May	Guided Walk Castlemartin range	Marsh Fritillary butterflies and lots more. – only 20 places-booking essential	WTSWW Robin Taylor Tel: 01348 840617
23 rd May	Skomer: Wild Island Martin's Haven & Skomer	Take a boat to the magical island where you will join a four-mile guided walk to discover its birds, wildflowers and history.	Pembrokeshire Coast National Park Authority Tel 01834 845040
30 th May	Skomer: Wild Island Martin's Haven & Skomer	Take a boat to the magical island where you will join a four-mile guided walk to discover its birds, wildflowers and history.	Pembrokeshire Coast National Park Authority Tel 01834 845040
4 th June	Pond Safari Freshwater East	A great fun activity for all the family. Get up close and personal and discover the fascinating wildlife in the National Park's new pond at Freshwater East. Wear wellingtons.	Pembrokeshire Coast National Park Authority Tel 01834 845040
5 th June	Walk at Lawrenny Lawrenny Quay	Join us for an estuary, farmland and woodland nature ramble at Lawrenny. Meet at 6.30 pm at Lawrenny Quay. Grid ref. SN011061. All welcome.	WTSWW Lynda Hickling Tel: 01834 810307 Email: lynda@thehicklins.co.uk
6 th June	Skomer: Wild Island Martin's Haven & Skomer	Take a boat to the magical island where you will join a four-mile guided walk to discover its birds, wildflowers and history.	Pembrokeshire Coast National Park Authority Tel 01834 845040
6 th June	Bugs & Beasties Castell Henllys	Many strange creatures make their home in the nooks & crannies of Castell Henllys. What kind of bugs & beasties are they? To find out join our ecologists and discover this hidden world!	Pembrokeshire Coast National Park Authority Tel 01834 845040

Biodiversity Events May - August 2012

Date	Title	Information	Contact
6 th June	Twilight at Colby Colby Woodland Garden	Discover woodland wildlife as darkness falls on this one-mile stroll in partnership with National Trust.	Tel: 01834 811885
7 th June	Twilight at Colby Colby Woodland Garden	Discover woodland wildlife as darkness falls on this one-mile stroll in partnership with National Trust.	Tel: 01834 811885 
9 th June	Walk at Pengelli Woods Pengelli Woods	A walk in Pengelli Wood to see recent changes and improvements	WTSWW Robin Taylor. Tel: 01348 840617 
13 th June	Skomer: Wild Island Martin's Haven & Skomer	Take a boat to the magical island where you will join a four-mile guided walk to discover its birds, wildflowers and history.	Pembrokeshire Coast National Park Authority Tel 01834 845040 
15 th June	Biodiversity Roadshow Haverfordwest	Visit the Biodiversity stall at Haverfordwest Farmer's market as part of Wales Biodiversity Week. Information, advice and plenty of food for thought.	Ant Rogers Biodiversity Implementation Officer Tel: 01437 764551 Email: anthony.rogers@pembrokeshire.gov.uk 
20 th June	Skomer: Wild Island Martin's Haven & Skomer	Take a boat to the magical island where you will join a four-mile guided walk to discover its birds, wildflowers and history.	Pembrokeshire Coast National Park Authority. Tel 01834 845040 
23 rd June	Fish Week – Opening Event Milford Marina	A celebration of Pembrokeshire's fish, coastline, culture and fishing heritage – don't miss the Pembrokeshire Biodiversity Partnership stand!	Pembrokeshire County Council Kate Morgan Tel: 01437 764551
24 th June	In the River Walk for Youngsters Solva	A chance to get in close and really find out about river life. Bring your own nets, wear wellies or jellies for a walk up the river bed!	Pembrokeshire Coast National Park Authority Tel 01834 845040
26 th June	Chuffed about Choughs Marloes – Deer Park	Pembrokeshire is proud to boast one of the UK's strongholds for the Chough. Find out about Britain's rarest member of the Crow family on this short walk.	Pembrokeshire Coast National Park Authority Tel 01834 845040
27 th June	Skomer: Wild Island Martin's Haven & Skomer	Take a boat to the magical island where you will join a four-mile guided walk to discover its birds, wildflowers and history.	Pembrokeshire Coast National Park Authority Tel 01834 845040

Biodiversity Events May - August 2012

Date	Title	Information	Contact
3 rd July	Walk at Stackpole Woods Stackpole	Join us for a woodland nature ramble in Stackpole Woods. Meet at 6.30 pm in the woodland parking area just to the west of Stackpole village. Grid ref. SR981965.	WTSWW Lynda Hickling Tel: 01834 810307 Email: lynda@thehicklins.co.uk
4 th July	Skomer: Wild Island Martin's Haven & Skomer	Take a boat to the magical island where you will join a four-mile guided walk to discover its birds, wildflowers and history.	Pembrokeshire Coast National Park Authority Tel 01834 845040
8 th July	Guided Walk Preseli Hills, Carn Menyn	A walk on The Preseli Hills around Carn Menyn.	WTSWW Robin Taylor Tel: 01348 840617
11 th July	Skomer: Wild Island Martin's Haven & Skomer	Take a boat to the magical island where you will join a four-mile guided walk to discover its birds, wildflowers and history.	Pembrokeshire Coast National Park Authority Tel 01834 845040
24 th July	Crab Catching Porthclais	Learn about crabs and how to catch and care for them. Tackle provided. Children must be accompanied.	Oriel Y Parc, St David's Tel: 01437 720392 Email: info@orielyparc.co.uk
24 th July	Brilliant Bats Oriel Y Parc	Family friendly walk to look for bats and listen to their calls on special detectors and to learn about their unusual lifestyles.	Oriel Y Parc, St David's Tel: 01437 720392 Email: info@orielyparc.co.uk
25 th July	Bugs & Beasties Castell Henllys	Many strange creatures make their home in the nooks & crannies of Castell Henllys. What kind of bugs & beasties are they? To find out join our ecologists and discover this hidden world!	Pembrokeshire Coast National Park Authority Tel 01834 845040
25 th July	Brilliant Bats Carew Castle	Short walks around Pembrokeshire's historic buildings in search of bats. Listen for bats on special detectors and to learn about their unusual lifestyles. Bring torches. Extra clothing advisable.	Pembrokeshire Coast National Park Authority Tel 01834 845040
27 th July	Marine Wildlife Watch at Dusk Porthgain	A short coastal walk to look for the thousands of Manx Shearwaters as they return to the islands of Pembrokeshire after a day at sea. An ideal opportunity to look for other marine wildlife too.	Pembrokeshire Coast National Park Authority Tel 01834 845040

Biodiversity Events May - August 2012

Date	Title	Information	Contact
27 th – 28 th July	The Really Wild Festival St David's	Promoting and showcasing locally grown or produced food, or wild ingredients foraged from the hedgerows, coast, beach and river there will loads to see, do and most importantly to eat.	Tel: 07792 170349 Email: julia@reallywildfestival.co.uk
28 th July	Brilliant Bats Bishop's Palace, St David's	Short walks around Pembrokeshire's historic buildings in search of bats. Listen for bats on special detectors and to learn about their unusual lifestyles. Bring torches. Extra clothing advisable.	Pembrokeshire Coast National Park Authority Tel 01834 845040
1 st August	Rockpool Rambles Stackpole Quay	Explore the pools and briny shallows to discover what amazing wildlife share this amazing place. Learn about their life cycles, feeding habits and how they survive in this challenging habitat.	Tel: 01646 661425 Email: Stackpoleevents@nationaltrust.org.uk
1 st August	Bugs & Beasties Castell Henllys	Many strange creatures make their home in the nooks & crannies of Castell Henllys. What kind of bugs & beasties are they? To find out join our ecologists and discover this hidden world!	Pembrokeshire Coast National Park Authority Tel 01834 845040
2 nd August	Beach Discovery: Rockpooling Freshwater East	Join the search as we take a closer look at the fascinating wildlife and natural wonders on the shore.	Pembrokeshire Coast National Park Authority Tel 01834 845040
2 nd August	Beach Discovery: Rockpooling Poppit	Join the search as we take a closer look at the fascinating wildlife and natural wonders on the shore.	Pembrokeshire Coast National Park Authority Tel 01834 845040
2 nd August	Rockpooling Oriel Y Parc	Join the search as we take a closer look at the fascinating wildlife and natural wonders on the shore. Children must be accompanied by an adult.	Oriel Y Parc, St David's Tel: 01437 720392 Email: info@orielyparc.co.uk
2 nd August	In the River Walk for Youngsters Solva	A chance to get in close and really find out about river life. Bring your own nets, wear wellies or jellies for a walk up the river bed!	Pembrokeshire Coast National Park Authority Tel 01834 845040

Biodiversity Events May - August 2012

Date	Title	Information	Contact
3 rd August	Marine Wildlife Watch at Dusk Strumble Head	A short coastal walk to look for the thousands of Manx Shearwaters as they return to the islands of Pembrokeshire after a day at sea. An ideal opportunity to look for other marine wildlife too.	Pembrokeshire Coast National Park Authority Tel 01834 845040
7 th August	Brilliant Bats Carew Castle	Short walks around Pembrokeshire's historic buildings in search of bats. Listen for bats on special detectors and to learn about their unusual lifestyles. Bring torches. Extra clothing advisable.	Pembrokeshire Coast National Park Authority Tel 01834 845040
8 th August	Bugs & Beasties Castell Henllys	Many strange creatures make their home in the nooks & crannies of Castell Henllys. What kind of bugs & beasties are they? To find out join our ecologists and discover this hidden world!	Pembrokeshire Coast National Park Authority Tel 01834 845040
8 th August	Secret Life of the Stream Colby Woodland Garden	Get up close and personal and discover fascinating wildlife in streams and ponds; hands-on activities and family fun all day. Partnership event with National Trust.	Pembrokeshire Coast National Park Authority Tel 01834 845040
8 th August	Brilliant Bats Oriel Y Parc	Family friendly walk to look for bats and listen to their calls on special detectors and to learn about their unusual lifestyles.	Oriel Y Parc, St David's Tel: 01437 720392 Email: info@orielyparc.co.uk
8 th August	Beach Discovery: Rockpooling Broad Haven North	Join the search as we take a closer look at the fascinating wildlife and natural wonders on the shore.	Pembrokeshire Coast National Park Authority Tel 01834 845040
8 th August	Crab Catching Porthclais	Learn about crabs and how to catch and care for them. Tackle provided. Children must be accompanied.	Oriel Y Parc, St David's Tel: 01437 720392 Email: info@orielyparc.co.uk
10 th August	Marine Wildlife Watch at Dusk Porthgain	A short coastal walk to look for the thousands of Manx Shearwaters as they return to the islands of Pembrokeshire after a day at sea. An ideal opportunity to look for other marine wildlife too.	Pembrokeshire Coast National Park Authority Tel 01834 845040

Biodiversity Events May - August 2012

Date	Title	Information	Contact
14 th August	Brilliant Bats Nevern	Short walks around Pembrokeshire's historic buildings in search of bats. Listen for bats on special detectors and to learn about their unusual lifestyles. Bring torches. Extra clothing advisable.	Pembrokeshire Coast National Park Authority Tel 01834 845040
15 th August	Bugs & Beasties Castell Henllys	Many strange creatures make their home in the nooks & crannies of Castell Henllys. What kind of bugs & beasties are they? To find out join our ecologists and discover this hidden world!	Pembrokeshire Coast National Park Authority Tel 01834 845040
15 th August	Brilliant Bats Orielson	Short walks around Pembrokeshire's historic buildings in search of bats. Listen for bats on special detectors and to learn about their unusual lifestyles. Bring torches. Extra clothing advisable.	Pembrokeshire Coast National Park Authority Tel 01834 845040
16 th August	Beach Discovery: Rockpooling Tenby	Join the search as we take a closer look at the fascinating wildlife and natural wonders on the shore.	Pembrokeshire Coast National Park Authority Tel 01834 845040
16 th August	Beach Discovery: Rockpooling Tenby	Join the search as we take a closer look at the fascinating wildlife and natural wonders on the shore.	Pembrokeshire Coast National Park Authority Tel 01834 845040
16 th August	Beach Discovery: Rockpooling Newport	Join the search as we take a closer look at the fascinating wildlife and natural wonders on the shore.	Pembrokeshire Coast National Park Authority Tel 01834 845040
17 th August	Marine Wildlife Watch at Dusk Strumble Head	A short coastal walk to look for the thousands of Manx Shearwaters as they return to the islands of Pembrokeshire after a day at sea. An ideal opportunity to look for other marine wildlife too.	Pembrokeshire Coast National Park Authority Tel 01834 845040
21 st August	Brilliant Bats Oriel Y Parc	Family friendly walk to look for bats and listen to their calls on special detectors and to learn about their unusual lifestyles.	Oriel Y Parc, St David's Tel: 01437 720392 Email: info@orielyparc.co.uk

Biodiversity Events May - August 2012

Date	Title	Information	Contact
22 nd August	Bugs & Beasties Castell Henllys	Many strange creatures make their home in the nooks & crannies of Castell Henllys. What kind of bugs & beasties are they?	Pembrokeshire Coast National Park Authority Tel 01834 845040
22 nd August	Brilliant Bats Orielton	Short walks around Pembrokeshire's historic buildings in search of bats. Listen for bats on special detectors and to learn about their unusual lifestyles. Bring torches.	Pembrokeshire Coast National Park Authority Tel 01834 845040
23 rd August	Secret Life of the Stream Colby Woodland Garden	Get up close and personal and discover fascinating wildlife in streams and ponds; hands-on activities and family fun all day. Partnership event with National Trust.	Pembrokeshire Coast National Park Authority Tel 01834 845040
23 rd August	Beach Discovery: Rockpooling Manorbier Beach	Join the search as we take a closer look at the fascinating wildlife and natural wonders on the shore.	Pembrokeshire Coast National Park Authority Tel 01834 845040
23 rd August	In the River Walk for Youngsters Fishguard	A chance to get in close and really find out about river life. Bring your own nets, wear wellies or jellies for a walk up the river bed!	Pembrokeshire Coast National Park Authority Tel 01834 845040
29 th August	Bugs & Beasties Castell Henllys	Many strange creatures make their home in the nooks & crannies of Castell Henllys. What kind of bugs & beasties are they? To find out join our ecologists and discover this hidden world!	Pembrokeshire Coast National Park Authority Tel 01834 845040
30 th August	Beach Discovery: Rockpooling Tenby	Join the search as we take a closer look at the fascinating wildlife and natural wonders on the shore.	Pembrokeshire Coast National Park Authority Tel 01834 845040
30 th August	Beach Discovery: Rockpooling Newport	Join the search as we take a closer look at the fascinating wildlife and natural wonders on the shore.	Pembrokeshire Coast National Park Authority Tel 01834 845040
31 st August	Rockpooling Oriel Y Parc	Join the search as we take a closer look at the fascinating wildlife and natural wonders on the shore. Children must be accompanied by an adult.	Oriel Y Parc, St David's Tel: 01437 720392 Email: info@orielyparc.co.uk

Biodiversity Newsletters

Mae'r cylch-lythyr hwn ar gael yng Nghymraeg, cysylltwch â Ant am gopi cymraeg.

PBP would like to thank all those who contributed to this newsletter. If you would like to write an article for the next newsletter please contact Ant.

PBP Contact Details

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Pembrokeshire Biodiversity website:

www.pembrokeshire.gov.uk (search - biodiversity)

Wales Biodiversity website:

www.biodiversitywales.org.uk

Facebook page: <http://www.facebook.com/PembrokeshireBiodiversity>

[PembrokeshireBiodiversity](http://www.facebook.com/PembrokeshireBiodiversity)

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County Landowners Association



Countryside Council for Wales



Environment Agency Wales



Farmers Union of Wales



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National Farmers Union – Wales



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Pembrokeshire County Council



Pembrokeshire Rivers Trust



Pembrokeshire Coast National Park Authority



Pembrokeshire Local Action Network for Enterprise and Development



Prince's Trust Cymru



Royal Society for the Protection of Birds



The National Trust



Llywodraeth Cymru
Welsh Government



The Wildlife Trust of South and West Wales



Year of the Bat
2011-2012



Wythnos Bioamrywiaeth Cymru
Wales Biodiversity Week

9th - 17th June 2012

Also Available in larger print, please contact Ant for a copy.

Ant Rogers
01437 764551



PEMBROKESHIRE BIODIVERSITY PARTNERSHIP

Pembrokeshire Biodiversity Partnership

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Organization
Several organizations work together in Pembrokeshire to protect and enhance biodiversity. Together, they form the Pembrokeshire Biodiversity Partnership.

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Biodiversity Wales

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