





Image 1 (left): *Viola odorata*, found in Denbighshire (v.c.50), exhibiting an unusual peach colour. Photo: Richard Birch. (See article, page 12).

Image 2 (right): Dafydd Davies at Poor Man's Wood, Llandovery, Carmarthenshire (v.c.44). Photo: A.O. Chater, August 2004 (see article, page 6).

Front Cover Photo: Some of the population of *Anacamptis morio* (Green-winged Orchid); garden in Burry Port, Carmarthenshire (v.c.44). Photo: Richard Pryce, May 2012. (See editorial, page 4)





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Back issues over one year old are currently being uploaded to the website.
www.watsonia.org.uk/html/welsh_bulletin.html

All articles, news, photos, guest editorials and other items for inclusion in the January 2013 issue should be sent to an editor by the **1st December 2012**.

Please send any plants records to your Vice-County Recorder (see BSBI Yearbook).

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Editorial

RICHARD PRYCE, *BSBI Recorder for Carmarthenshire (v.c.44). Trevethin, School Road, Pwll, Llanelli, Carmarthenshire, SA15 4AL. PryceEco@aol.com*

The Threatened Plant Project (TPP) has prompted Kath and I to check as many *Anacamptis morio* (Green-winged Orchid) sites in Carmarthenshire as we can get to during the season, not just the three sites selected by the BSBI. We started at our most prolific site, Pembrey Burrows, where, in most years, thousands of plants are normally to be found from mid April until the end of May. We thought that the warm March would herald an early season but our first sortie on April Fools' Day only produced one plant in bud. We put it down to the dry weather, but then April came when it seemed never to stop raining! We ventured out again on 22nd April and counted about fifteen plants on the area of dunes visited previously and a similar number on the edges of the nearby football field, also originally dune grassland. Now in the latter half of May, the rain has eased but temperatures seem to have reverted to winter values and it is only now that reasonable numbers of the orchid are appearing.

We have also visited a house in Burry Port from where Philip Jones, the county mycological recorder, had reported fourteen flowering *A. morio* plants growing on the front lawn. These are proudly protected by the owner who religiously cuts the grass around them, presumably with scissors! (See front cover). All fourteen in this population are very dark coloured in contrast to the usual medium-purple of the majority of the Pembrey Burrows plants where there are also a few pink and one-or-two white individuals.

What a contrast to the situation at the cemetery in North Road, Whitland! Here, in 1989, 150 flowering *A. morio* plants together

with abundant *Orchis mascula* (Early-purple Orchid) were recorded by John Steer in an area of the unimproved neutral grassland peripheral to the graves. At the time the mowers respected the orchids by refraining from cutting the grass until the orchids had flowered. Several years later when checking the site, I was horrified to discover that the area was being mown much earlier. The man with the mower was adamant that he mowed around all the orchids but, of course, he was mowing most of them off before they had had a chance to show themselves. By 2004, a total of just nine small, part cut *A. morio* were in flower, the site having previously been mown. This year's check by Kath and I confirmed that mowing seems to be commencing even earlier with no sign of any *A. morio* plants after an hour's search although Kath did come across three tiny mangled spotted-leaved rosettes of *O. mascula*. One wonders how the chapel authorities reconcile their beliefs with this unnecessary destruction – after all, they are all God's creations.....! (See image 10, page 62).

The situation is similar on many of our roadside verges where fortnightly mowing has exterminated all the Dactylorchids (*Dactylorhizas*) and *Anacamptis pyramidalis* (Pyramidal Orchid), but I'd better not start on that hobby-horse!

On a more encouraging note, yesterday we counted twenty flowering plants of *Silene gallica* (Small-flowered Catchfly) at its Burry Port Harbour site, despite an apparent apathy shown towards its management by the local authority, and where we thought they had exterminated it more than once in the

past few years. However, it appears that they have managed to destroy the nearby *Malva neglecta* (Dwarf Mallow) site for this year at least. Both are the only places where these species are known to grow in the county.

So, I encourage you all to brave the inclement weather and monitor at least the selected TPP sites and, if possible, visit other sites of TPP species in your county.

Remember that your County Recorder will always welcome help from you and will be more than happy to receive your records.

I hope to see you at some of this year's field excursions (listed on page 11) and especially look forward to the Llangollen AGM and Exhibition Meeting on 20th – 22nd June.

Errata and Comments from Issue 89

Page 29, Images 6 & 7, caption should read: *Persicaria mitis* (Tasteless Water-pepper) at Redbrook on the River Wye.

Page 35, Image 9, caption should read: Specimen of *Carex elongata* (NMW) collected by Polly Spencer-Vellacott's grandfather in 1977. Despite searching by Polly and by Andy Jones this population was not re-found in 2011.

Page 37: Vice-county report for v.c.48 was solely written by Sarah Stille.

Page 38, back cover Image 12, caption should read: *Erica terminalis* (Corsican

Heath) originally planted as landscaping (v.c.52), has now seeded itself for over 50m. Photo: Ian Bonner. See abstract on p.9.

Referring to the article 'A Sample of *Persicaria mitis* (Tasteless Waterpepper) Sites in Wales', page 28; Trevor Evans would like to point out that "Penpergwm Pond SSSI was deepened by a mechanical digger breaking the waterproofing layer causing the water to leak away to the small area near the centre whence the digging took place, changing the ecology of the site and reducing its value to the wildlife living there".

Welsh Officer's Blog

Polly has started a blog which may be found at <http://bsbicymru.blogspot.co.uk/>. This will include informal botanical news from Wales. Others would be welcome to contribute, and Polly would be happy to include links to other sites relating to Welsh botany. For more information email welshofficer@bsbi.org.uk

Dafydd Davies

RICHARD PRYCE, *BSBI Recorder for Carmarthenshire (v.c.44). Trevethin, School Road, Pwll, Llanelli, Carmarthenshire, SA15 4AL. PryceEco@aol.com*

It is with great sadness that I have to report the death in March of Dafydd Davies of Rhandirmwyn (see image 2, inside front cover) where, for many years, he was the village's schoolmaster. He had a deep interest in natural history and I'm sure his enthusiasm must have sparked a similar interest in many of his pupils.

He first joined the BSBI in 1963 and over the years provided many detailed botanical records from the north-east of Carmarthenshire and was probably the last botanist to see *Juniperus communis* (Common Juniper) growing wild in the county. He was very involved in Carmarthenshire's natural history in the 1960s to 1980s and was active at a time which enabled him to meet some of the naturalists from an earlier generation such as John Brunker. He was always a really nice gentleman, who had a wide breadth of knowledge of local natural history and was always happy to provide details of his records in conversation.

Latterly, he became very occupied in the running of Cymdeithas Edward Llwyd which became upper-most in his natural history life in addition to promoting the Society's cultural and social aspects. He periodically reported to me the counts of *Hammarbya paludosa* (Bog Orchid) made by members of Cymdeithas who regularly visited its only Carmarthenshire site. Ian remembers very enjoyable days out with him on Mynydd Mallaen as well as at Pembrey Forest and Burrows and I last had the pleasure of his company in August 2005 when he led a

Wildlife Trust walk to the Nantymwyn Leadmine (see image 3 below). On this occasion, in his usual energetic fashion, he made a cracking pace until we arrived at the places he wanted to show the party, which included not only botanical treasures but also geological, ornithological and entomological features of interest.

He was truly a naturalist of the old-school having an interest and deep knowledge in all aspects of the subject! He will be sorely missed.

Richard Pryce (with contributions from Ian Morgan).



Image 3. Dafydd Davies, Wildlife Trust meeting at Nantymwyn, Carmarthenshire (v.c.44). Photo: Kath Pryce, August 2005.

BSBI WALES ANNUAL GENERAL MEETING 2011

The 49th AGM of the BSBI in Wales, held at Dale Fort Field Studies Centre, Pembrokeshire on Saturday 13th August 2011.

1. Welcome

The Chairman, Delyth Williams welcomed everyone to Dale Fort. There were 38 people present including Chairman, Secretary and Treasurer.

2. Apologies for Absence

Penny Condry, Paul Day, Liz Dean, Natasha De Vere, Jean Green, Rod Gritten, Sue Spencer, Kate Thorne, Stephanie Tyler and Ray Woods.

3. Minutes of 2010 AGM

Minutes of the 48th Annual General Meeting held at Hotel Cymyran, Valley, Anglesey on Saturday 12th June 2010 were approved as printed in Welsh Bulletin No.88.

4. Matters Arising

Trevor Evans asked why emphasis was placed on those not attending by listing apologies but no list of those present was made. Therefore Richard Pryce circulated a list for those present to sign.

5. Chairman's Statement

Delyth Williams began with a tribute to members deceased during the year and spoke of John Topp, who had been a regular attendee at Welsh AGMs over many years. He was an expert botanist with a fine sense of humour and will be very much missed.

She thanked all the officers of the Committee, particularly Wendy McCarthy as retiring Field Meetings Organiser. Sarah Stille has volunteered to take over this post and has also been appointed to BSBI Meetings Committee. Both were thanked for all their hard work. Delyth also thanked all those who volunteer to lead field meetings and made particular reference to Richard and Kath Pryce who organise the “Glynhir” Carmarthenshire Recording Week each year. She then thanked Ian Bonner for his many years as an excellent Minutes Secretary which he is understandably relinquishing due to additional demands on his time now that he has taken up his role as BSBI President.

The Chairman said that over the past year BSBI in Wales had been improving links with other organisations such as the National Botanic Garden of Wales and Plantlife. She mentioned the

BSBI Recording Strategy as an area of focus for the coming year and then welcomed Polly Spencer-Vellacott, who has recently been appointed to the new post of BSBI Welsh Officer, and invited her to speak.

5a. BSBI Welsh Officer's Report

Polly introduced herself and described some aspects of her job, including (1) Supporting Vice-county Recorders, (e.g. IT and planning Recording Strategies) and (2) Working with CCW (eg monitoring rare plant populations and encouraging VCRs and members to carry out this task to augment the work of CCW and its staff). Polly told the audience that she is based in Mold and that members should feel free to contact her. Finally she thanked BSBI for appointing her and said that she is enjoying her new appointment very much so far.

6. Hon. Secretary's Report

Kath Pryce echoed Delyth's thanks and also thanked all those involved in the appointment of Polly, including thanking CCW for its support, and welcomed her. She went on to:

- a) Encourage everyone present to read the Welsh Bulletin (available to non-residents in Wales for £2 per copy – contact the editors: Katherine Slade, Sally Whyman or Richard Pryce) and appealed for members to contribute short notes and pictures for future issues.
- b) Record our thanks to Gwynn Ellis for all the work he does in compiling *Welsh Plant Records* for the Welsh Bulletin and with all other work that he does for the Society.
- c) Draw attention to a couple of new books relevant to members: the (outstanding) *Flora of Cardiganshire* by Arthur Chater, and the *Atlas of British and Irish Hawkweeds* by David McCosh and Tim Rich.
- d) Finally the Secretary thanked all those involved in the organisation of the events this weekend, particularly Stephen and Ann Evans, Sarah Stille who dealt with bookings and the two local helpers - Jane Warr and Fiona Gomersall.

7. Treasurer's Report

Annual Statement of Accounts for the period 1 January 2011 - 31 July 2011

<i>Receipts</i>	£	<i>Payments</i>	£
Welsh Bull. Subs	84.00	Committee expenses	33.50
AGM	3,532.00	Welsh Bulletin #87	294.60
Plantlife article in W.Bulltin #86	160.00	Welsh Bulletin #88	456.82
Coffee cash	55.50	Committee travel exps	30.00
		AGM booking refund	134.00
		Unpaid cheque	34.00
		FSC for AGM	2690.00
Totals	3,831.50		-3,672.92
Receipts - Payments	158.58		
B/F from 31/12/2010	580.37		
Balance	738.95		

Accounts 1 January 2010 - 31 December 2010

<i>Receipts</i>	£	<i>Payments</i>	£
Welsh Bul. subs	130.00	Welsh Bulletin	1,001.38
AGM	959.00	2010 AGM	592.50
Plantlife article in Welsh Bulletin	140.00	2011 AGM (deposit)	100.00
Collection for leaving presents	130.00	Leaving presents (to Summerfield Books)	130.00
		Committee expenses	31.00
Totals	1,359.00		1,854.88
Receipts less payments	-495.88		
c/f from 31 Dec 2009	1,076.25		
Balance 31 Dec 2010	580.37		

Outstanding to FSC (Accommodation paid for but not yet invoiced) -114.00

Leaving an available balance 624.95

There were no questions and the accounts were accepted unanimously (proposed by Arthur Chater, seconded by Richard O'Connor) and the Chairman thank Sarah for her work as Treasurer.

8. Election of Officers and Committee Members

As Delyth Williams as Chairman and Julian Woodman as Vice Chairman have completed one year of their four year terms, they continue in post.

The following members retire from the Committee in 2011 and agreed to stand for re-election: Ian Bonner, Natasha De Vere and Julian Woodman. Their re-election was approved.

Also Wendy McCarthy retires from Committee in 2011 but, regrettably, is not standing for re-election, and was thanked by the Chairman.

The Secretary, Kath Pryce, is standing down in order to take on the role of Minutes Secretary and Richard Pryce offered to (again) take on the role of Secretary (Proposed by Sarah Stille, seconded by Julian Woodman) (In reality Richard and Kath will share the work).

The Committee now comprises:

Chairman:	Delyth Williams
Vice Chairman:	Julian Woodman
Secretary:	Richard Pryce
Treasurer:	Sarah Stille
Bulletin Editors:	Richard Pryce, Sally Whyman and Katherine Slade
Meetings:	Sarah Stille
Minutes:	Kath Pryce
Members:	(additional to Ian Bonner, Natasha De Vere and Julian Woodman re-elected above) Arthur Chater, Liz Dean, Stephen Evans, Trevor Evans, Andy Jones, Mike Porter, Kate Thorne and Ray Woods
CCW Observer:	Paul Day
Plantlife Representative:	Trevor Dines
BSBI Welsh Officer:	Polly Spencer-Vellacott

9. Any Other Business

1. Delyth outlined arrangements for the 2012 Wales AGM (the 50th), to be held at Bryn Howel Hotel, Trefor, Llangollen, between 20th - 22nd June, asking members to note that this is from Wednesday to Friday, the first time an BSBI Welsh AGM event has not been held at a weekend.

2. Trevor Evans drew attention to his exhibition & quiz and promised answers at 9:30pm this evening.

The meeting closed at 3:50pm.

Reminder—BSBI Wales AGM 2012

50th Welsh AGM & 30th Exhibition Meeting

Wednesday 20th June – Friday 22nd June 2012, Llangollen

Bookings will soon be closing for the BSBI Wales AGM 2012 to be held at Bryn Howel Hotel near Llangollen, Denbighshire. See BSBI Year Book 2012 for particulars. If you haven't yet booked and wish to now, please contact Delyth via delyth@siriolbryn.co.uk or 01824 702196.

There is a wide range of interesting habitats within easy reach of this area, from limestone to bog and industrial to aquatic. Members will be able to choose from a range of options. The hotel is 10 minutes drive from the main A483 trunk road and we can arrange lifts from the nearest train stations of Ruabon or Wrexham.

One or two rooms may still be available at the hotel; contact the Bryn Howel Country Hotel & Restaurant (www.brynhowel.com 01978 860331, reception @brynhowel.com).

Calendar of Meetings 2012

Full details and procedure for booking are also available in the BSBI Yearbook 2012 and the BSBI Welsh Bulletin no. 89, January 2012.

Saturday 16th June: Hay on Wye, Breconshire, v.c.42. John Crellin.

Wednesday 20th to Friday 22nd June: Welsh AGM, Llangollen, Denbighshire, v.c.50. Delyth Williams.

Saturday 30th June: Whitford, Glamorgan, v.c.41. Barry Stewart. (Glamorgan weekend).

Sunday 1st July: Upper Rhondda, Glamorgan, v.c.41. Julian Woodman. (Glamorgan weekend).

Saturday 14th to Saturday 21st July: Glynhir, Carmarthenshire, v.c.44. Richard and Kath Pryce.

Tuesday 24th to Friday 27th July: Plas Caerdeon, Merionethshire, v.c.48. Sarah Stille and Rod Gritten.

Saturday 28th July: Llyn Geirionydd, Caernarvonshire, v.c.49. Wendy McCarthy.

Saturday 11th August: Rhydymwyn, near Mold, Flintshire, v.c.51. Polly Spencer-Vellacott [Beginners Training Day].

Saturday 15th September: Ynyslas, Cardiganshire, v.c.46. Andy Jones.

An Unusual Form of *Viola odorata* from Denbighshire

RICHARD BIRCH, *pomegranate1@aol.com*

I came across this plant while inspecting a bridge at SJ 0386.7491 in early March 2012. It is striking because ‘peach’ is an unexpected colour break to find in a wild violet – for this is most definitely a peach colour, and not a yellow (see image 1, inside front cover). It is even more surprising to find out that the characters of the plant correspond to *Viola odorata* (Sweet Violet). Native, but also a popular garden plant occurring in colours ranging from the typical mauve through to white. To get a colour break that is not a derivative of the typical range is extremely unusual in any flower and the ultimate prize of the plant breeder. Was this such a plant? It called for further research....

I have been ably assisted in this, first by Mr. Mike Hardman, the BSBI referee for violets, who informed me that a form of *V. odorata* known as ‘sulphurea’ was available in the trade, and has been known for over 100 years. It was apparently, ‘discovered by a postman on the edge of a wood in Indre, France around 1896.’ Typically, the horticultural nomenclature is complex and confused, with several different descriptions and spellings that all possibly relate to the same plant. It does appear that it is reliably true from seed, however, and at least one popular seed house supplies seeds of plants under this name, and which fit the description (although it is erroneously described as being yellow in colour, despite an accurate photograph that certainly looks peach to me). Plants of *V. odorata* var. ‘sulphurea’ are also available from the violet specialist Groves Nurseries, in Bridport, Dorset, so I contacted them for a second opinion. Mr. Clive Groves offers it as a species in its own right, called *V. sulphurea*.

There are arguments for and against this

view. The spur is purple in *V. sulphurea*, indicating that it is possible to derive peach from purple after all. On the other hand, the peach-coloured flower is odourless (or described by some as being foetid rather than sweet), and if a combination of scent and colour in a flower is tailored to attract a specific pollinator, then this one is clearly getting it wrong. This may account for its reliability from seed: it is not attracting the same pollinators. Equally though, violets are often cleistogamous, with the flowers self-pollinating while still in bud, so in this case a pollinator may not be that important. Whatever the case, the method of seed dispersal is the same: on inspection under the microscope, there are elaiosomes (oil bodies) on the seeds, and consequently they look like miniature wine jugs. These oil glands are attractive to ants, and they are the agents for the spread of the plant (*myrmecochory*).

Mr. Groves gives accounts of ‘several people that have just found an odd plant in their garden’. One would not expect such random occurrence from ant vectors, and there are no records of it in the wild in Britain – at least none of which anyone was aware.

On balance, *V. odorata* var. ‘sulphurea’ seems a safe bet, and although its spontaneous appearance on the edge of a leafy lane to a bridge over the A55 is no less implausible than the original setting (less romantic, I’ll admit) it is much more likely to be a garden escape. It is now restored to captivity: the small cutting I collected for examination has been planted in my own garden, where it appears to have retained the rampant vigour of the parent species (and which may be cause for regret later). Fellow botanists may note that the original plant is still where it was found.

Carmel Woods National Nature Reserve, Carmarthenshire (v.c.44), 21st May 2011

ANDY JONES, c/o Countryside Council for Wales, WG Building, Rhodfa Padarn,
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Carmel Woods NNR is a remarkable mixture of limestone grassland, ancient woodland and rock outcrops (including several old and recently disused quarries) and the only seasonal lake or turlough in Britain. The complex boundaries between these habitats reflect past human use and it was necessary to have a guide, Jamie Bevan, the Countryside Council for Wales's Warden, to help interpret this history – and prevent us from getting lost.

As ancient woodland, Carmel Woods has remarkably few old trees (a single patch of *Quercus robur* (Pedunculate Oak)) and a canopy of predominantly young *Fraxinus excelsior* (Ash) and *Acer pseudoplatanus* (Sycamore) with a rich understorey of *Ilex aquifolium* (Holly), *Corylus avellana* (Hazel), *Crataegus monogyna* (Hawthorn), *Cornus sanguine* (Dogwood), *Euonymus europaeus* (Spindle) and *Hedera hibernica* (Atlantic Ivy). There is a surprising absence of *Tilia cordata* (Small-leaved Lime). The canopy age and composition reveals a history of recent clearance and regrowth (with invasive Sycamore), but also conceals the long periods of continuous tree cover.

This was to be found, however, in the abundance of ancient coppice stools, coinciding very well with the distribution of long-lived and relatively immobile woodland floor specialists like *Mercurialis perennis* (Dog's Mercury) *Sanicula europaea* (Sanicle) and *Galium odoratum* (Woodruff). These species were also found to be highly concentrated in very thin-soiled, rocky areas

with abundant *Asplenium scolopendrium* (Hart's-tongue) and both *Polystichum aculeatum* (Hard Shield-fern) and *P. setiferum* (Soft Shield-fern), indicating areas that had gone a long time without grazing. In thin-soiled, very rocky areas (somewhat resembling limestone pavement with tree cover) this woodland floor community hosted several very local specialties, including *Moerhingia trinervia* (Three-nerved Sandwort), *Lathraea squamaria* (Toothwort), *Convallaria majalis* (Lily-of-the-valley) and, especially, locally abundant *Paris quadrifolia* (Herb-Paris). Two new colonies of *Paris* totalling over 70 flowering plants, were discovered on this visit but these were judged to be more likely previous oversights than recent arrivals. At least two people became lost in this part of Carmel Woods, searching for *Paris* and other plants.

Steady rain set in after lunch (where we had tried and failed to discern characters in the locally abundant *Geranium robertianum* (Herb-Robert) that could support calling it 'subspecies *celticum*' – reported from this site) and we therefore proceeded quickly through alternating species-rich grassland and Ash-Hazel woods towards the site for the rarest plant of the meeting. This was in a particularly isolated rocky knoll with a more open canopy of naturally stunted trees (including one or two *Taxus baccata* (Yew)), seemingly less disturbed than some of the woodlands visited in the morning. The woodland floor here also had a more open composition (with abundant *Hyacinthoides non-scripta* (Bluebell), *Asplenium adiantum-*

nigrum (Black Spleenwort) and *Conopodium majus* (Pignut)) and it was here, after careful searching, that Richard and Kath Pryce finally located two small bushes of *Daphne mezereum* (Mezereum). Neither had any fruits and, even with the possibility of a few other plants, this seems like a precariously small

population for such a short-lived species, here at one of the most isolated stations in its range.

Andy Jones (with thanks to Jamie Bevan).

101 Rare Plants of Wales: Progress and request for last few pictures

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We are preparing a popular guide to rare Welsh plants, to raise their profile in the public eye. Each species is allocated a brief account of about 250 words, in which a description, its habitat, distribution and a brief 'story' are given in addition to information on threats and conservation. Although brief, each account must be understandable to the general public, our target audience. Care will be taken not to disclose sensitive locations in order to protect vulnerable populations.

The visual appeal of this book is vital. A draft example of what pages may look like showing the photographs which are to be used is shown in image 11, inside back cover. We have had a fantastic response to our appeal for digital photographs but a few more are still required.

If anybody has good quality digital photographs for the species listed below they would be greatly appreciated.

Dactylorhiza purpurella subsp. *cambrensis*
Euphrasia cambrica

Euphrasia officinalis subsp. *anglica*
Euphrasia ostenfeldii
Euphrasia pseudokernerii
Poa glauca
Potamogeton compressus

They do not necessarily need to be taken in Wales, a good image is more important. All sources will be acknowledged and a copy of 101 Rare Plants of Wales is offered in return for any photographs we use.

Since our last request in BSBI News, the book has progressed well and we hope to be finalising the text in August. We are currently investigating various publishing options.

Please send any images to the authors.

The next plant to go extinct in Wales? Bulbous Meadow-grass (*Poa bulbosa* L.)

TIM RICH, *Welsh National Herbarium, National Museum of Wales, Cardiff CF10 3NP*
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Poa bulbosa was first found in Wales at The Knap (also referred to as Cold Knap or Bull Cliff), near Barry, Glamorgan, by H.J. Riddelsdell on 26 June 1906: “The locality is a pebbly shore, with mud among the pebbles. In considerable quantity and in company with large quantities of *Trifolium striatum* etc.” (Riddelsdell 1907). In 1911 Riddelsdell noted “Much increased since first saw it here; it extends a good half mile” (Riddelsdell 1912; NMW), and it was recorded regularly thereafter. However, Julian Woodman only saw about 40 plants in 2010 in two tiny patches (see image 13, back cover), Rebecca East, Karen Wilkinson and I saw 38 very dried up plants in 2011, and Clive Lovatt and I only saw 5 flowering plants in 2012 though more vegetative plants were present.

It was also recorded at nearby Porthkerry on the shingle ridge at about ST088.667 in June 1956 by A.E. Wade and was last collected there on 25 April 1987 by J.P. Curtis and G.

Hutchinson (NMW). Julian Woodman last saw it 1999 and searches in 2011 and 2012 failed to find it. An A.E. Wade record from Aberthaw in 1956 is probably a transcription error for Porthkerry. So, although once clearly abundant, *Poa bulbosa* has declined markedly and must be ‘Critically Endangered’ in Wales although it is considered of IUCN threat status ‘Least Concern’ in Britain. Unusually the decline, caused by loss of habitat, can be graphically illustrated from the history of The Knap and old postcards (Thomas 2010).

Before the docks were developed at Barry, The Knap was farmland owned by Lord Romily. The pebble ridge between Cold Knap and Bull Cliff formed a barrier between the sea and the low lying marshy ground associated with the Cadoxton River, and it would have been in this habitat that Riddelsdell found it (see image 4 below left).



Image 4. Postcard of The Knap beach prior to construction of the promenade showing the vegetated shingle edges (courtesy B.A. Thomas).



Image 5. 1920s postcard showing the promenade built on part of the ridge but the scruffy vegetated edges of the beach which are the likely habitat of *Poa bulbosa* can be clearly seen (courtesy B.A. Thomas).



Image 6. c.1940s postcard showing the cars parked at The Knap (courtesy B.A. Thomas).



Image 7. Postcard (franked 1958) clearly showing further development of the car park with a curb at the seaward edge.

Barry Council acquired The Knap in the 1920s, and built a promenade on top of the eastern part of the ridge using public funds from the Unemployed Grants Committee (see image 5, page 15). The area behind the promenade was developed as gardens, a swimming pool and lake.

A letter from H.J. Riddelsdell to Eleanor Vachell on 6 August 1929 (NMW) suggests that steps were being taken to protect the grass. Major Edgar Jones of Barry County School for Boys reported Mr. Hinchliffe and the Chairman of the Parks Committee were taking an active interest and planned to grow the grass in one of the beds in the municipal gardens. Later, Vachell (1936) reported that “Bulbous Meadow-grass (*Poa bulbosa*) at Cold Knap, lately threatened by the erection of a promenade and artificial lake in its only known Welsh habitat, was saved from destruction by the exemplary action of the Barry District Council, who gave it sanctuary in the public gardens behind the new sea wall”. I have been unable to trace any further mention of this and could find no plants in the gardens in 2011.

A 1940 map shows a small extension of the paved road west along the ridge, presumably as a car park. The ridge to the west of the sunken garden was further developed as a car

park after the war (see images 6 & 7 above) and paved and extended to the west in more recent years, removing much of the remaining area of suitable habitat of shingle mixed with finer sediment.

Poa bulbosa is on the brink of extinction in Wales. There is now virtually no suitable habitat left as the shingle mixed with finer material has been built on and the remaining large pebbles at the top of the beach provide no substrate for it to grow in (though *Centranthus ruber* with its deeper rooting system is spreading). The only realistic conservation action left seems to be to take it back into cultivation, but not at the municipal gardens.

Acknowledgements

I would like to thank Rebecca East, Clive Lovatt, Karen Wilkinson and Julian Woodman for their help.

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To All BSBI Members in Monmouthshire v.c.35

STEPHANIE TYLER steph_tyler2001@hotmail.com

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BSBI Recorders for Monmouthshire (v.c.35)

We would like to introduce ourselves as the joint new BSBI Recorders for v.c.35 Monmouthshire.

We are taking over from Trevor Evans who has been the Vice-County BSBI Recorder for an impressive 40 years. He wants to devote more of his time to fieldwork and less to sitting at a computer. We owe Trevor a huge vote of thanks for all he has done as Recorder over the last two decades and he leaves a wonderful legacy in his excellent *Flora of Monmouthshire*, which shows us the status and distribution of all species found in the vice-county, and in the Rare Plants Register for Monmouthshire. Trevor is a difficult act to follow and having two new Joint Recorders shows what an enormous amount of work he did single-handed.

We hope very much to involve all BSBI members in Monmouthshire (or from further afield) in the new Atlas and in the Threatened Plants Project in 2012. Of the ten species listed for 2012, three are found in the vice-county. One *Anacamptis morio* (Green-winged Orchid) is quite widespread in the east of the county and the second *Bupleurum*

tenuissimum (Slender Hare's-ear) occurs along the coast between Chepstow and Cardiff (see Trevor's Atlas). The third is *Persicaria minor* (Small Water-pepper) which was recently found at Penpergwm Pond. Another species *Ranunculus arvensis* (Corn Buttercup) used to occur in arable fields in Monmouthshire but there have been no records since 1977. Please look out for this species too – it may just turn up somewhere. By the time you read this the flowering season for *Anacamptis morio* will be over but if you know of any site for this orchid or for the other threatened species then do please let us know.

We would love to hear from any of you who could take on a tetrad or two for recording for the new Atlas.

It would be very helpful if you were able to let us have an email address so that we can contact you as we hope to arrange one or more field meetings later this year.

Dale Fort, Pembrokeshire (v.c.45): BSBI Wales AGM 12th-14th August 2011

STEPHEN EVANS, *BSBI Recorder for Pembrokeshire (v.c.45)*, glanymor.dinas@onetel.net

JANE WARR, jcwarr@btinternet.com

FIONA GOMERSALL

More than 45 members were present over the three days of field excursions in the far west of Wales. The Flora of the Dale area had been described in great detail by Martin George in *Field Studies* in 1961 after he had been at the Field Studies Council's (FSC) Dale Fort and in 1987 Juliet Brodie, also once deputy warden at Dale Fort, updated his work in an unpublished manuscript.

It was especially pleasing to have Dr. Polly Spencer-Vellacott, the first BSBI Welsh Officer, at the AGM field excursions.

Friday, 12th August: Watwick Bay and Kete, Dale

After registering at the superbly sited FSC Dale Fort Field Centre, built in 1856, members split into two groups. The longer walk followed the coast path from Dale Fort to Watwick Bay. After examining many plants of *Carex distans* (Distant Sedge) growing in crevices of the middle parts of the Old Red Sandstone raised beach rock platform, *C. punctata* (Dotted Sedge) was eventually found at Watwick Bay in damp crevices in the uppermost reaches of the rock platform. It has been known on these cliffs since 1953 when Frank W. Adams collected a specimen for Kew. Dic David and Tommie Warren Davis re-found it in 1974. The distinctive pink flowered *Rubus ulmifolius* (a Bramble) was one of its associates and this readily identifiable bramble was also found alongside the coast path. Some large plants of *Asplenium marinum* (Sea Spleenwort) were also examined near the *C. punctata*.

Atriplex littoralis (Grass-leaved Orache) was growing on low rocks at the upper limits of Watwick beach. Arable weeds seen on the edge of barley stubble by the coast path on the return journey included *Kickxia elatine* (Sharp-leaved Fluellen), *Lamium hybridum*, (Cut-leaved Dead-nettle), *Spergula arvensis* (Corn Spurrey) and *Stachys arvensis* (Field Woundwort). A hybrid willow *Salix x holosericea* (Silky-leaved Osier) was determined by Graham Kaye and Arthur Chater.

Jane Warr took another group to Kete car park where a small stand of *Chamaemelum nobile* (Chamomile) was examined. Amongst the highlights of the walk were the many beautifully sculpted plants of *Cytisus scoparius* ssp. *maritimus* (Prostrate Broom) on the nearby Old Red Sandstone cliff top. Roadside plants examined included a fine clump of *Geranium pratense* (Meadow Crane's-bill) growing with the bramble *Rubus ulmifolius* and *Senecio erucifolius* (Hoary Ragwort).

In the evening a few members looked at the South African *Lampranthus falciformis* (Sickle-leaved Dewplant) at the tip of Dale Point. It had been introduced here in about 1930 but it was not until 1974 that Tommie Warren Davis obtained a determination from Dr. J.P. Rourke of Kirstenbosch Garden, Cape Province, South Africa. There was also a patch of *Erigeron glaucus* (Seaside Daisy) on the cliff lip whilst on the face below was a well-established stand of *Atriplex portulacoides* (Sea-purslane). Although this

shrub is normally a plant of saline mud and sand, Pembrokeshire has 16 widely scattered populations flourishing on rocky sea-cliffs as well as large stands in estuarine habitats.

Saturday, 13th August: Pickleridge and the Gann Estuary and West Dale Bay, Dale

The main excursion of the day was a visit to the shingle spit, saline lagoon and lower reaches of the small Gann Estuary at Dale with the kind permission of the Dale Castle Estate. This rich complex of coastal habitats has long been a haunt of botanists and was one of the favourite field excursions for the first resident Pembrokeshire BSBI recorder, Tommie Warren Davis, who lived nearby and owned the east side of the estuary. *En-route* to the estuary a tiny stand of *Fagopyron dibotrys* (Tall Buckwheat) was seen from the cars at the roadside verge location where it was first recorded in 1960 and correctly identified by Ted Lousley in 1975. Until Arthur Chater's discovery of a thriving colony at Aber-porth, Cardiganshire (v.c.46), in 2010 the Dale location was thought to be the only location in the British Isles where this Asian plant was naturalised (see Exhibit Article, *Welsh Bulletin No.89*, page 14). *Carex divisa* (Divided Sedge) was inspected by the old limekilns where it was found by Juliet Brodie of Dale Fort in 1982. It only has one other Pembrokeshire location on the island of Skokholm. Unfortunately at the time of this excursion there were no flowering plants as it had been cut by a highway verge maintenance machine. After a careful search, flowering *Trifolium ornithopodioides* (Bird's-foot Clover) was eventually found on the edge of the car park. Much mutual amusement was caused as a family were cooking breakfast right next to the spot where some 40 botanists went down on their hands and knees to examine the clover's tiny creamy white flowers!

The shingle ridge, known as Pickleridge, that fronts a small tidal lagoon yielded *Medicago arabica* (Spotted Medick), *Erodium moschatum* (Musk Stork's-bill) and flowers and leaves of *Lycium barbarum* (Duke of Argyll's Teaplant) were examined. At its distal end several tiny recurved shingle spits were explored and a healthy flowering patch of *Chamaemelum nobile* (Chamomile) was admired along with many plants of *Trifolium scabrum* (Rough Clover). Members spent some time comparing the *Limonium binervosum* (Rock Sea-lavender) and *L. humile* (Lax-flowered Sea-lavender) plants that grew in close proximity where the shingle gave way to upper salt marsh.

Stuart Devonald then showed members flowering *Calystegia sepium* subspecies *roseata* (Hedge Bindweed) on the upper edge of the saltings near where he had first found it in 1987. Lunch was taken alongside some fine stands of *Elymus atherica* (Sea Couch) growing at the base of the breached salt marsh embankment. Some awned specimens were examined and much effort was made to try and find the hybrid with *E. repens* (Common Couch). Arthur Chater later checked pollen from three different stands and all were found to be virtually fully fertile. It is still possible that the hybrid is present as it is with both parents on the Teifi Estuary, near Cardigan.

At the rear of the lagoon a wet unmade farm track marked the boundary between extreme upper salt marsh and freshwater seepages coming out of the toe of the adjacent bank of fluvio-glacial sands. The wettest ruts in the track had flowering patches of *Catabrosa aquatica* (Whorl-grass), which is a very rare grass in Pembrokeshire. Flowering *Apium graveolens* (Wild Celery) and *Berula erecta* (Lesser Water-parsnip) grew at the edges of the track along with *Ranunculus sceleratus*

(Celery-leaved Buttercup). Tall specimens of *Parapholis strigosa* (Hard-grass) were seen in flower and *Juncus ranarius* (Frog Rush) was present on the track with *J. bufonius* (Toad Rush). In addition *J. subnodulosus* (Blunt-flowered Rush) was growing in the small fen at the rear of the tidal lagoon.

In the evening Jane Warr led a small group to inspect the fine clump of fruiting *Crambe maritima* (Sea-kale) at West Dale Bay. It had first been found there by Jon Hudson in 2003. Jane also showed some members the Dale Castle Estate walled garden.

Sunday, 14th August: West Hook Farm and Marloes Sands, Marloes

In glorious sunny weather members gathered at the National Trust owned West Hook Farm at the tip of the Marloes peninsula. The farmer had kindly allowed access to the margins of his spring barley fields where there were fine stands of *Silene gallica* (Small-flowered Catchfly). It had first been found on the farm by Fiona Gomersall in 2009 whilst Tommie Warren Davis had noted it on the adjacent farm, East Hook Farm, in 1958. *Misopates orontium* (Weasel's-snout) was also in flower. The highlight, apart from the stunning views out over the bright blue waters of St. Brides Bay, was a stand of 1,000's of flowering *S. gallica* in 20 x 7 paces of a gateway between two arable fields. *S. gallica* is still scattered in the coastal arable fields of Pembrokeshire. It has been found in 14 one km. squares since 2000. Lunch was held overlooking Marloes Sands, Gateholm and Skokholm islands. After lunch

members made a rapid march along the sands to inspect *Rumex rupestris* (Shore Dock) which is only accessible at low tide. It had first been found here at the south-east end of Marloes Sands in 2000 by Stephen and Ann Evans during a Plantlife survey of all suitable locations in Pembrokeshire. It had previously been known from the beach at Lydstep Haven in south Pembrokeshire between 1957 and 1970. Members were able to examine its distinctive fruits and to discuss its very exacting habitat requirements. It was located at extreme high water where it is rooted into sandy shingle that is irrigated by freshwater seeping out of the toe of the unstable 50m. sea-cliff. The larger colony, perhaps the parent colony, on a wet cliff face at the opposite end of the beach, is in a location that would be unsafe for a visiting group.

A detour on the return journey allowed members to see more *Chamaemelum nobile* (Chamomile), this time in the Horse Neck Field of Trehill, another National Trust farm. This stand had first been found by Stephen Evans in 1995 in short coastal grassland that was reverting from arable. There were also many scattered patches of flowering *Lotus subbiflorus* (Hairy Bird's-foot-trefoil) which had first been discovered in this field in 1995 by Alan Hale. It was the final "notable" plant examined by members before they returned to their cars for the long homeward journeys.

WELSH PLANT RECORDS – 2011

Welsh Plant Records are compiled by Gwynn Ellis, 41 Marlborough Road, Roath, Cardiff, CF23 5BU, from reports of BSBI vice-county Recorders to whom records should preferably be sent. Plants are listed for each vice-county in the order of D.H. Kent's *List of Vascular Plants of the British Isles* (1992) and *Supplements 1, 2 & 3* (1996 & 2000) the number in those lists preceding the name so that names changed since 1996 can be given without giving the former name. Latin names follow the 3rd edition of C.A. Stace's *New Flora of the British Isles* (2010) or, if not in that Flora, E.J. Clement & M.C. Foster's *Alien Plants of the British Isles* (1994). T.B. Ryves, E.J. Clement & M.C. Foster's *Alien Grasses of the British Isles* (1996) or Sell & Murrell's *Flora of Great Britain and Ireland* (1996-2009). Authorities for Latin names are not given unless the name is not in any of these works. English names are those in Stace (2010) or *English Names of Wild Flowers* ed. 2 (1986) by Dony *et al*, or, if not in either of those, Clement & Foster (1994), Ryves, Clement & Foster (1996) or Sell & Murrell (1996-2009). English names enclosed by square brackets do not occur in any of these books but have been used elsewhere. Welsh names are those in *Planhigion Blodeuol, Conwydd a Rhedyn*, published by Cymdeithas Edward Llwyd (2003).

The following symbols are used:

* to indicate a new v.c. record; ⊗ to indicate an updated VCCC record.

+ to indicate a new hectad record; ⊕ to indicate an updated hectad record; ⊖ to indicate a new tetrad record

† indicates archaeophyte; ‡ indicates neophyte; © indicates casual.

†‡© before the species number: to indicate that the species is regarded as an archaeophyte, neophyte or casual at least somewhere in the British Isles.

†‡© before the record: to indicate a species which although a native, archaeophyte or neophyte at least somewhere in the British Isles, is not so in the locality recorded.

[] to indicate that the record, previously published in error, should be deleted.

□ to indicate an update to a rare or scarce taxon.

∅ to indicate that the taxon is now believed to be extinct in the locality cited.

N, S, E, W indicate points of the compass.

In general, only records which update the *Vice-county Census Catalogue* [VCCC] (2003) or the *New Atlas of the British & Irish Flora* (2002) will be listed. Other records are included at the discretion of the vice-county recorder. The minimum grid reference is to a hectad but, if supplied by the recorder, references to a 1km or even a 100m square may be included. A letter in parentheses following a grid reference indicates a tetrad.

The Vice-county Recorders from 1/7/2012 are:

- MONMOUTH, v.c.35; Dr S.J. Tyler, Yew Tree Cottage, Lone Lane, Penallt, Mons, NP25 4AJ; steph_tyler2001@hotmail.com & Mrs E. Wood (*all correspondence to Dr Tyler*).
- GLAMORGAN, v.c.41 (West); Mr B. Stewart, 36 Pencaerwn Road, Gorsenion, Swansea, SA4 4FU. 01792 539447; moonmoths@virginmedia.com
- GLAMORGAN, v.c.41 (East); Mr J.P. Woodman, c/o CCW, Rivers House, St Mellons Business Park, Fortran Road, St Mellons, Cardiff, CF3 0EY (Please mark PERSONAL). 029 2077 2400; Julian.Woodman@ccw.gov.uk
- BRECON, v.c.42; Mr M. Porter, Aberhoywy Farm, Cyffredyn Lane, Llangynidr, near Crickhowell, Powys NP8 1LR. 01874 730354; mikechris1@btinternet.com
- RADNOR, v.c.43; Miss E.R. Dean, Enmore House, Croft Lane, Kingsland, Leominster, Herefordshire, HR6 9PP. 01568 780769; erd@btconnect.com & Mrs S.M. Spencer (*all correspondence to Miss Dean*).
- CARMARTHEN, v.c.44; Mr R.D. Pryce, Trevethin, School Road, Pwll, Llanelli, Carmarthenshire SA15 4AL. 01554 775847; pryceeco@aol.com
- PEMBROKE, v.c.45; Mr S.B. Evans, Glan-y-Mor, Dinas Cross, Newport, Pembrokeshire SA42 0UQ. 01348 811539; glanymor.dinas@virgin.net
- CARDIGAN, v.c.46; Mr A.O. Chater, Windover, Penyrangor, Aberystwyth, Ceredigion SY23 1BJ. 01970 617409; aochater@nildram.co.uk & Mr S.P. Chambers (*all correspondence to Mr Chater*).
- MONTGOMERY, v.c.47; Dr A K Thorne, Churton House, Church Pulverbatch, Shropshire, SY5 8BZ. 01743 718270; k.thorne@btinternet.com & Mr M. Duffell (*all correspondence to Dr Thorne*)
- MERIONETH, v.c.48; Dr R. Gritten, Traian, Llanfrothen, Penrhyndeudraeth, Gwynedd, LL48 6SW. 01766 770933; grittenecology@yahoo.co.uk & Mrs S. Stille (*all correspondence to Dr Gritten*)
- CAERNARFON, v.c.49; Mrs W.N. McCarthy, 5 Tyn-y-coed, Great Orme, Llandudno, Conwy LL30 2QA. 01492 877451; Wendorme@aol.com
- DENBIGH, v.c.50; Mrs D. Williams, Bryn Siriol, Graigfechan, Ruthin, Denbighshire, LL15 2HA. 01824 702196; delyth@siriol.myzen.co.uk.
- FLINT, v.c.51; Ms E. Meilleur, 1 Fron Goch, Llanberis, Gwynedd, LL55 4LE. 01286 870173; emilytheameilleur@gwynedd.gov.uk
- ANGLESEY, v.c.52; Mr I.R. Bonner, Cae Trefor, Tyn y Gongl, Anglesey LL74 8SD. Tel: 01248 852651; bsbi@caetrefor.co.uk & Mr N.H. Brown (*all correspondence to Mr Bonner*).

MONMOUTH, v.c.35 (comm. T.G. Evans)

- +1/1.1. **Huperzia selago** (Fir Clubmoss)(Cnwp-fwsogl Mawr). 1 plant hillside, above Varteg, SO255076(N); +Several plants, adjacent to Coity Pond, Blaenavon, SO232093(J); both S.Williams, 2011.
- +5/1.1. **Ophioglossum vulgatum** (Adder's-tongue)(Tafod y Neidr). Hundreds in MG5 sward, The Island, Llandegfedd Reservoir, SO336006(F), S.Williams, 2010.
- ⊖5/2.1. **Botrychium lunaria** (Moonwort)(Lloer-redynen). 10+ on coal spoil, Waunavon, Blaenavon, SO226106(F); ⊖10+ on coal spoil, Canada Tips, Blaenavon, SO250107(K); both S.Williams, 2011.
- ⊕14/2.1. **Phegopteris connectilis** (Beech Fern)(Rhedynen Gornio). 15 plants on raised ground among trees, Cwm Coed y Cerrig, SO28832088(V), T.G.Evans & C.Titcombe, 2011.
- 16/4.1. **Gymnocarpium dryopteris** (Oak Fern)(Rhedynen Dridarn). Unspecified number in, Margaret's Wood SSSI, SO526069, J.Winder et al. 1994; c.150 plants in, Sarah Cheese's pasture & Frank Chetwyn's wood, SO52370696; W above woodland track, SO52520694; both, S.J.Tyler; 2 more sites making a total of several hundred plants, E of the latter, SO52520694 & SO52550693, S.J.Tyler & T.G.Evans; Up to 100 fronds between, SO526069 & SO524069, S.J.Tyler; 100+ along lower fence, Lower Hael Wood, SO53140772(I); 500+ over 5 × 5m, Lower Hael Wood, SO53280756(I); both N.Hudson et al.; all 2011.
- ⊖16/4.2. **Gymnocarpium robertianum** (Limestone Fern)(Rhedynen y Calchfaen). Edge of Furlong Wood, Cwmavon, SO271067(T), S.Williams, 2011.
- ⊕±19/1.1. **Azolla filiculoides** (Water Fern)(Rhedynen y Dwr). Frequent in Mon & Brecon Canal, Cwmbran, ST290956(X), S.Williams, 2010.
- ⊕28/2.1. **Trollius europaeus** (Globeflower)(Cronnell). 3 plants in flower, damp part of Cwm Llanwenarth Hay Meadows SSSI, SO25341237(L), J.Saville, 2011. 1st record since 1927.
- ⊕±28/6.1.a. **Aconitum napellus** ssp. **napellus** (Monk's-hood)(Cwccwll y Mynach). 1 large patch above forestry track, Lower Hael Wood SSSI, SO52970785(I), N.Hudson & K.Wilkinson, 2011.
- ⊖28/13.3. **Ranunculus bulbosus** (Bulbous Buttercup)(Blodyn-y-menyn Bondew). Kingcoed Farm, SO428056(H), S.J.Tyler, 2011.
- ⊖28/13.10. **Ranunculus auricomus** (Goldilocks Buttercup)(Blodyn-y-menyn Peneuraid). 1 plant, woodland, Coed Cefn near Tregare, SO427103(F), S.J.Tyler, 2011.
- ⊕⊖34/1.1. **Cannabis sativa** (Hemp)(Cywarch). 1 plant near SE bank of reservoir, The British, SO24910448(M), T.G.Evans & C.Titcombe, 2011.
- ⊕43/1.5. **Chenopodium glaucum** (Oak-leaved Goosefoot)(Troed-yr-wydd Dail Derw). 1 plant on edge of scrape in brackish grassland, just W of West Usk Lighthouse, ST30428191(A), T.G.Evans, 2011.
- *43/3.10. **Atriplex portulacoides** (Sea-purslane)(Llygwyn Llwydwy). 1m² on brackish grass adjacent to anti-erosion stone blocks, edge of Severn Estuary to E of Sutton House, ST3020781661(A), T.G.Evans, 2010; T.G.Evans & C.Titcombe, 2011, NMW.
- ⊕±45/2.1. **Claytonia perfoliata** (Springbeauty)(Porpin y Gwanwyn). Small crop base of litter bin on pavement, near Asda, Blackwood, ST17469726(T), P.A.Smith. 2011. 1st published record.

- ⊖47/1.6. **Persicaria bistorta** (Common Bistort)(Llysiâu'r Leidr). W end of Woolpitch Wood, SO4804(X), S.J.Tyler, 2011.
- 55/1.1. **Drosera rotundifolia** (Round-leaved Sundew)(Gwlithlys). Abundant on *Sphagnum* tumps on N sloping boggy field, Ty-pwll, Fforest Coal Pit, SO28712079(V), T.G.Evans & C.Titcombe, 2011. Uncommon in such numbers.
- +61/2.16. **Salix repens** (Creeping Willow)(Corhelygen). 1 plant on disused railway line, Waunavon, Blaenavon, SO223107(F), S.Williams, 2011.
- ⊗62/12.5×6. **Rorippa ×anceps (R. sylvestris × R. amphibia)** (Hybrid Yellow-cress)(Berwr Melyn Croesryw). Several plants, left bank R. Usk, SW of Llanwenarth Church, SO270165(T), T.G.Evans & C.Titcombe, 2010, det. T.C.G.Rich. 2nd & 1st recent record.
- ⊖62/14.6. **Cardamine impatiens** (Narrow-leaved Bitter-cress)(Berwr Chwerw Culddail). 340 plants on both sides of disused 1 km railway track, Redbrook – Whitebrook, SO532083(J), S.J.Tyler, 2011. Unusual numbers.
- *#62/15.pro. **Arabis procurrens** (Balkan Rock-cress / Prostrate Arabis). 1 colony of 2 flowering spikes and attached 4-5 non-flowering rosettes of leaves on top of stone border to lawn, area disturbed by removal of invasive shrubs in 2009, La Cuesta, Mounon Road, Chepstow, ST5293(G), T.G.Evans, 2011, conf. E.J.Clement. The plant perfectly matches the photo, colour section plate 4, *BSBI News* **115**. 1st Welsh Record.
- ⊖62/37.1.b. **Coincya monensis** ssp. **cheiranthos** (Wallflower Cabbage)(Bresychen y Fagwyr). 1 plant R. Usk bank close to footpath, S of George St Bridge, Newport, ST321875(I), T.G.Evans & C.Titcombe, 2011.
- ⊖†63/1.1. **Reseda luteola** (Weld)(Melengu). N side of R. Monnow, Llancillo, SO378253(S), S.J.Tyler, 2011.
- +66/1.3.b. **Pyrola rotundifolia** ssp. **maritima** (Round-leaved Wintergreen)(Glesyn-y-gaeaf Deilgrwn). <50 plant limestone quarry, Abersychan, Pontypool, SO272029(R), 2009; +<10 plant in limestone quarry, Cwmysyscoy LNR, Pontypool, ST283997(Z), 2010; both S.Williams.
- ⊖69/4.2. **Lysimachia nummularia** (Creeping-Jenny)(Siani Lusg). Frequent in damp edge of field, Parson's Grove, Eatlswood, ST4594(M), S.J.Tyler, 2011.
- ⊖69/6.1. **Anagallis tenella** (Bog Pimpernel)(Gwlyddyn-Mair y Gors). Frequent on sloping, N facing, boggy field, Ty-pwll, Fforest Coal Pit, SO28712079(V), T.G.Evans & C.Titcombe, 2011.
- 75/28.ste. **Sorbus stenophylla** (Llanthony Whitebeam). 1 maiden tree, 4/6m on low cliff at 1246ft high, at The Tumble, SO25561148(K), D.Green, 2011.
- +#77/15.7. **Lathyrus grandiflorus** (Two-flowered Everlasting-pea)(Ytbysen Fythol Fawr-flodeuog). St Sannans churchyard, SO165003(Q), T.G.Evans & C.Titcombe, 2011.
- +#77/15.9. **Lathyrus latifolius** (Broad-leaved Everlasting-pea)(Ytbysen Fythol Lydanddail). Scattered in grass among tombstones, St Sannans churchyard, SO165003(Q), T.G.Evans & C.Titcombe, 2011. *Lathyrus linifolius* & *Vicia orobus* also present.
- ⊖77/15.12. **Lathyrus nissolia** (Grass Vetchling)(Ytbysen Feinddail). Many plants in SSSI meadows, Solutia, N of Nash, ST341847(M), 342846, 343847, L.MacClean. 2011.
- ⊖77/19.23. **Trifolium arvense** (Hare's-foot Clover)(Meillionen Gedennog). 2 patches of 1m², left bank of R Usk, Newport, ST322873(I), T.G.Evans & C.Titcombe, 2011. 1st record as a native.

- +‡79/2.2. **Myriophyllum aquaticum** (Parrot's-feather)(Pluen Parot). In dewatered section of Mon & Brecon Canal, Sebastopol, ST293983(Z), S.Williams, 2010.
- +87/1.1. **Viscum album** (Mistletoe)(Uchelwydd). On street tree, Brynmawr Town Centre, SO192115(V), S.Williams, 2010.
- ⊖91/2.7. **Euphorbia stricta** (Upright Spurge)(Llaethlys Syth). †In walled garden & path in woodland, Coed Cefn, Tregare, SO426104(F), S.J.Tyler; †10-20 plants in newly cleared & new area, in Penhow Woodlands NNR, ST41598995(E), T.G.Evans; both 2011.
- ⊖107/19.3. **Oenanthe pimpinelloides** (Corky-fruited Water-dropwort)(Cegiden Mynwy). Locally frequent in grassland, field W of Ty Mawr Lane, ST266827(R), N.Hudson, 2011.
- ⊖‡110/1.1. **Nicandra physalodes** (Apple-of-Peru)(Afal Periw). ©With black calices in vegetable garden, Glyn Lane, Penallt, SO527101(F), S.J.Tyler & I.Rabjohn, 2007; ⊖©A few plants on Council soil dump, Chepstow Rd. Raglan, SO45570925(P), H.V.Colls. 2010.
- 110/3.1. **Atropa belladonna** (Deadly Nightshade)(Codwarth). 3 plants, close to Far Harkening Rock, SO542144(M), C.Titcombe, 2011. Also seen in Oct 2011 with T.G.Evans and 50m from T.C.G.Rich's site of 2005. Now a rare v.c. plant.
- *©112/1.1. **Cuscuta campestris** (Yellow Dodder)(Llindag Melyn). A number of plants on *Guizotia abyssinica* (Niger), from bird seed, near Trivor, at Far Barn, St Maughans, SO463178, G.Laws, det. S.J.Tyler, 2010.
- ⊖113/2.1. **Nymphoides peltata** (Fringed Water-lily)(Lili'r-dwr Eddiog). †Several plants in Dunlop Semtex Pond, Brynmawr, SO189114(V); †Extensive raft, Llanelly Hill fishing pond, SO218113(A); both S.Williams, 2011. 1st records as a neophyte.
- ⊖116/2.1. **Echium vulgare** (Viper's-bugloss)(Gwiberlys). c.100 plants, mainly young rosettes, Ifton Quarry, ST464883(U), C.Titcombe, 2011. Also seen later with T.G.Evans.
- ⊖‡116/9.1. **Borago officinalis** (Borage)(Tafod yr Ych). 10 plants corner of field, NE of track, Little Hadnock, SO53421525(H), T.G.Evans & C.Titcombe, 2011. 1st record as a neophyte.
- +118/18.2. **Clinopodium ascendens** (Common Calamint)(Brenhinllys). 1 plant pathside, SE of Far Harkening Rock, SO54101460(M), T.G.Evans, 2011.
- ⊖121/2.1. **Littorella uniflora** (Shoreweed)(Beistonnell Ferllyn). Frequent in pond shoreline, Cefn garn yr erw, Blaenavon, SO242105(K), 2010; ⊕Frequent Balls Pond shore, Blaenavon, SO255096(P), 2011; both S.Williams.
- +‡124/1.1. **Verbascum blattaria** (Moth Mullein)(Pannog y Gwyfyn). 6 plants field N of track, Little Hadnock, SO53421526(H), T.G.Evans & C.Titcombe, 2011.
- ‡124/1.2. **Verbascum virgatum** (Twiggy Mullein)(Pannog Fain). 200+ plants (doubling previous numbers) N of main railway, E Undy, ST449875(N), T.G.Evans, 2011.
- ⊖‡124/4.1. **Mimulus moschatus** (Musk)(Mwsg). A single 30cm strand in shallows, Nant Tysswg, SO134064(I), J.N.Davies. 2011.
- ⊖124/13.1×4. **Linaria ×sepium (L. vulgaris × L. repens)** (a hybrid toadflax). 20 plant railway ballast, Undy, ST444873(N), T.G.Evans, 2011. H.V.Colls saw plants near rail at Rogiet end. 1st records this millennium.
- ⊖125/1.1. **Lathraea squamaria** (Toothwort)(Deintlys). <25 plants adjacent to Afon Llwyd, Cwm Avon, SO271061(T), S.Williams, 2008.
- +125/2.10. **Orobanche minor** (Common Broomrape)(Gorfanhadlen). 7 plants on roadside bank, near Chapel Farm, SO486013(V), S.J.Tyler, 2011.

- 128/1.3. **Pinguicula vulgaris** (Common Butterwort)(Tafod y Gors). Abundant on N facing sloping bog, Ty-Pwll, Fforest Coal Pit, SO28712074(V), T.G.Evans & C.Titcombe, 2011.
- ⊖129/6.1. **Jasione montana** (Sheep's-bit)(Clefryn). E bank, Nant Tysswg, SO134064(I), J.N.Davies. 2011.
- ⊖130/6.2. **Galium odoratum** (Woodruff)(Briwydd Bêr). Within beech wood, Henllys, Cwmbran, ST288936(W), S.Williams, 2010.
- ⊖130/6.6. **Galium verum** (Lady's Bedstraw)(Briwydd Felen). Kingcoed Farm, SO428056(H), S.J.Tyler, 2011.
- ⊖131/2.2. **Viburnum lantana** (Wayfaring-tree)(Gwifwrnwydden). Pentwyn Farm Reserve, SO524094(J), G.Wynne. 2010.
- ⊖134/1.3. **Dipsacus pilosus** (Small Teasel)(Cribau'r-pannwr Bach). Several plants by wood ride, near Fair oak/Fedw, ST508984(E), S.J.Tyler; ⊖Few plants on track/field side, Little Hadnock, SO52541386(G), T.G.Evans & C.Titcombe; both 2011.
- ⊗134/5.1. **Scabiosa columbaria** (Small Scabious)(Clafriyls Bach). 1 plant still in flower, top of Chepstow Castle wall, ST534942(H), T.G.Evans, 2011.
- +135/6.3. **Cirsium dissectum** (Meadow Thistle)(Ysgallen y Ddôl). 3 plants following shrub clearance, off Ninewells Rd. Cleddon Bog, SO50890390(B), N.Hudson, 2010.
- +†135/7.1. **Onopordum acanthium** (Cotton Thistle)(Ysgallen Gotwm). 2 plants at edge of field, back of Wonastow War Memorial, SO485109(V), H.V.Colls. 2010.
- ⊖135/40.1. **Solidago virgaurea** (Goldenrod)(Eurwialen). Scattered on E bank, Nant Tysswg, SO134064(I), J.N.Davies. 2011.
- ⊖135/43.6. **Erigeron acris** (Blue Fleabane)(Amrhydlwyd Glas). Abundant, W end Ifton Quarry, ST4588(P), C.Titcombe, 2011.
- *‡135/44.flo. **Conyza floribunda** (Bilbao Fleabane). Jingle Street, SO476107, H.V.Colls, 2010, conf. R.M.Burton; +Plants found in front garden in Wonastow Rd, Monmouth, SO500122(B), D.Price & C.Lovatt, 2011. Also at back of Agincourt Accountancy, Agincourt St. Monmouth. 1st records.
- ⊖135/62.17. **Senecio sylvaticus** (Heath Groundsel)(Creulys y Rhos). Roadside bank, near Chapel Farm, SO486013(V), S.J.Tyler, 2011.
- ⊖136/1.1. **Butomus umbellatus** (Flowering-rush)(Brwynen Flodeuog). 1 clump in Mon & Brecon Canal, Cwmbran, ST293933(W), S.Williams, 2010.
- ⊖137/4.2. **Alisma lanceolatum** (Narrow-leaved Water-plantain)(Llyriad-y-dwr Culddail). <5 plants, Llanelly Hill Fishing Pond, SO218113(A), S.Williams, 2011.
- ⊖‡138/3.1. **Egeria densa** (Large-flowered Waterweed)(Large-flowered Waterweed). Mass in almost still water, edge of Rogiet Countryside Park, ST458872(N), T.G.Evans, 2010, NMW.
- *‡148/2.tur. **Lemna turionifera** (Red Duckweed). Small quantities among other Duckweeds, along Pil-du Reen, ST2379(J) and/or 2480(K), R.V.Lansdown, 2008.
- ⊖152/16.5. **Carex otrubae** (False Fox-sedge)(Hesgen Dywysennog Goesadeiniog). Plentiful in E side untended verge, entrance to Cwm Tysswg, SO136059(H), J.N.Davies. 2011.
- +152/16.10. **Carex arenaria** (Sand Sedge)(Hesgen y Tywod). Broadly linear colony c.44m long close to railway, Caldicot-Rogiet, ST46818761 to 46778761(T), T.G.Evans, 2011, NMW.
- ⊖152/16.11. **Carex disticha** (Brown Sedge)(Hesgen Lygliw). Locally abundant in large patches in field, S of Magor, ST416860(D), N.Hudson, 2011.

- ⊕152/16.27. **Carex pseudocyperus** (Cyperus Sedge)(Hesgen Gynffonnog). Small patch, S of Magor, ST420862(I), N.Hudson, 2011.
- 152/16.41. **Carex distans** (Distant Sedge)(Hesgen Blodau Pell). Further search of last known v.c. site at ST30248173 A by TGE & CT in 2011 revealed no plants.
- ⊖152/16.51. **Carex caryophyllea** (Spring-sedge)(Hesgen Gynnar). 2 good patches in field near old farmhouse, Cefnydd, W of Llandewi Rhydderch, SO343132(L), D.& E.Sheers & S.J.Tyler, 2011.
- ⊖152/16.65. **Carex acuta** (Slender Tufted-sedge)(Hesgen Tywysennau Main). 40-50 clumps on W bank canal, S of Cwmbran between Ty Coch footbridge, ST290937(W), D.Green, 2011. Also at foot of defunct locks at Two Locks Rd. ST291940 X. 2 new tetrads.
- 152/9.1. **Eleogiton fluitans** (Floating Club-rush)(Clwbfrwynen Arnofiol). Several m² massed in remaining water central in large shallow basin Chepstow Park Wood, ST4861797976 (Y), T.G.Evans, 2011. None visible in nearby ponds where recorded last year.
- ⊖153/18.9. **Poa compressa** (Flattened Meadow-grass)(Gweunwellt Cywasgedig). Bank of disused reservoir, Waterworks Lane, Abersychan, SO278046(S), S.Williams, 2011.
- +153/18.10. **Poa palustris** (Swamp Meadow-grass)(Gweunwellt y Gors). 1 large plant (6-7 internodes) in marshy grassland invaded by tall vegetation including shrubs, NE of Underwood to M4, ST384892(Z), T.G.Evans, 2011, NMW, 2nd record & 1st since 1989.
- *153/23.2. **Parapholis incurva** (Curved Hard-grass)(Caledwellt Cam). 1 patch several m² on brackish grassland, nearer to W Usk lighthouse than Sutton House, ST308823(B), T.G.Evans, 2010, NMW.
- +‡153/38.3. **Phalaris canariensis** (Canary-grass)(Pefrwellt yr Adar). Few plants on Council Soil dump, Chepstow Rd. Raglan, SO45570925(P), H.V.Colls. 2010.
- +‡153/52.5. **Anisantha madritensis** (Compact Brome)(Pawrwellt Cryno). A patch on cliff edge, Sudbrook Camp, ST50578730(D), T.G.Evans, 2011.
- +©153/70.ver. **Setaria verticillata** (Rough Bristle-grass)(Cibogwellt Troellog). 3 plants at edge of maize crop, near Usk Tertiary College, SO367019(Q), C.Titcombe, 2011, det. T.G.Evans. 2nd record.
- ⊖158/7.1. **Colchicum autumnale** (Meadow Saffron)(Saffrwm y Ddôl). Masses of plants on grassy slope just above small chapel, Blue Door, Far Hill, Llanishen, SO468045(S), S.J.Tyler & M.Milling, 2011.
- ⊕158/12.1. **Lilium martagon** (Martagon Lily)(Lili Fartagon). 1 plant in flower in disused churchyard, St Mary's, Tintern, SO53090000(F), C.Howard, 2011. 1st record since Miss E. David's 1932 finding. Is this her 'near Tintern' site?
- ⊖158/14.1. **Polygonatum multiflorum** (Solomon's-seal)(Llysiâu-Solomon). 1 large clump at side of woodland track, Highfield to old church above Tintern, ST526998(J), S.J.Tyler, 2011.
- ⊖158/17.1. **Paris quadrifolia** (Herb-Paris)(Cwlwm Cariad). 3 clumps in woodland, N of Lone Lane, Penallt, opp. Prisk Wood, SO5309(J), S.J.Tyler, 2011.
- ⊖158/33.5. **Narcissus pseudonarcissus** (Daffodil)(Cenhinen-Bedr Wyllt). 500+ in Pen y Fedw Wood, between Hendrew & Upper Crwys, SO447153(M), S.J.Tyler, 2011.
- ⊖159/5.3. **Iris pseudacorus** (Yellow Iris)(Gellesgen). Pencarreg Farm, SO429065(I), S.J.Tyler, 2011.
- ⊖162/3.4. **Epipactis helleborine** (Broad-leaved Helleborine)(Y Galdrist Lydanddail). 193 plants, Chapel Farm, SO486013(V), S.J.Tyler, 2011.

- 162/13.2. **Platanthera bifolia** (Lesser Butterfly-orchid)(Tegeirian Llydanwyrdd Bach).
Hardwick Plantation, ST457895, P.L.MacClean, 2011. Only v.c. site. 9 plants in 2010 & 2 plants in 2011.
- ⊖162/14.1. **Anacamptis pyramidalis** (Pyramidal Orchid)(Tegeirian Bera). 2/4 plants,
Cymynyscoy LNR, Pontypool, ST283996(Z), S.Williams, 2009.
- ⊕162/18.4. **Dactylorhiza praetermissa** (Southern Marsh-orchid)(Tegeirian-y-gors Deheuol).
Numerous plants, in Solutia Meadows, ST341847, 342846, 343841(M), L.MacClean.
2011.
- +162/23.3. **Ophrys apifera** (Bee Orchid)(Tegeirian y Wenynen). 1 in grass, The British,
SO25180438(M), T.G.Evans & C.Titcombe; +20+ along roadside, N of Garn Lakes LNR,
SO229103(F), S.Williams; both 2011.

GLAMORGAN, v.c.41 (comm. J.P.Woodman & B.Stewart)

- ⊕1/1.1. **Huperzia selago** (Fir Clubmoss)(Cnwp-fwsogl Mawr). 2 plants noted in one small
area during a quick search, Craig-y-Llyn, SN92230307, B.Stewart; ⚭2+ plants in block
scree, Darren y Bannau, SS871938, S.D.S.Bosanquet; both 2011.
- ⊕4/1.4×5. **Equisetum ×litorale** (**E. fluviatile** × **E. arvense**) (Shore Horsetail)(Marchrawnyn
y Glennydd). Canal (N), Jenkins Road, Neath, SS732971, B.Stewart, 2011.
- ⚭28/13.27. **Ranunculus circinatus** (Fan-leaved Water-crowfoot)(Crafanc-y-frân Wyntyllog).
Canal (S), Jenkins Road, Neath, SS731969, B.Stewart, 2011.
- *⚭28/17.1. **Thalictrum aquilegifolium** (French Meadow-rue)(Arianllys Ffrainc). Neath
Abby, SS7397, C.& H.Hipkin, 2011.
- ⊕28/17.4.min. **Thalictrum minus** ssp. **minus** (Lesser Meadow-rue)(Arianllys Bach). Gated
area, Longford Road, Coed bach-y-cwm, SS73699807, B.Stewart, 2011.
- ⊕†30/1.5.b. **Papaver lecoqii** (Yellow-juiced Poppy). In weedy ground by sunken garden,
Dyffryn Gardens, ST096723, R. & L.Nottage, 2011.
- ⚭31/4.1. **Ceratocarpus claviculata** (Climbing Corydalis)(Mwg-y-ddae'r Dringol). Abundant
over 10×3m next to path, on SW side of fence, N of Coed Deri-Newydd, Cefn y Brithdir,
SO12480329, D.Barden, 2011; Amongst shrubs of car park. Troed-y-rhiw Jestyn, Deri,
SO124032, J.N.Davies. 2011. Same hectad as D.Bardens record but slightly later date.
- ⊕33/1.1×3×4. **Ulmus ×hollandica** (**U. glabra** × **U. minor** / **U. glabra** × **U. minor** × **U. plotii**)
(Dutch Elm)(Llwyfen yr Iseldiroedd). †Woodland canopy, Coed Shelone Woods, Briton
Ferry, SS736944, B.Stewart, 2011.
- ⚭40/1.1×2. **Betula ×aurata** (**B. pendula** × **B. pubescens**) (a hybrid birch). Scrub, Jenkins
Road, Neath, SS730968, B.Stewart, 2011.
- ⊕43/6.3. **Salicornia europaea** (Common Glasswort)(Llyrllys Cyffredin). Saltmarsh,
Llanrhidian, SS488942, B.Stewart & M.Hipkin, 2011.
- ⚭45/3.1.b. **Montia fontana** ssp. **variabilis** (Blinks)(Porpin y Ffynnon). 1 patch, Llantrisant
Common, ST0464584451, D.Barden, 2011. 1st recent record.
- ⚭46/17.3. **Spergularia marina** (Lesser Sea-spurrey)(Troellig Arfor Bach). Under M4 flyover,
N of Afon Kenfig, Mawdlam, SS80388296, B.Stewart, 2011.

- ⊗+46/19.1. **Agrostemma githago** (Corncockle)(Bulwg yr Yd). ©Along road verge, where seed mix spread in disturbed seed bed along 100m length, N side of A468, Caerphilly, ST136868, J.Woodman, 2011. 1st recent record but casual only. Other species included *Anthemis arvensis*, *Centaurea cyanus* & *Glebionis segetum*.
- ⊖46/25.7. **Dianthus armeria** (Deptford Pink)(Penigan y Porfeydd). Reprofiled colliery spoil, Parc Penallta, Caerphilly, ST125954, B.Sands, 2009. 10-15 plants in 2009, B.Sands & S.Greenfield recorded 1131 flowering plants in 2011 (non-flowering plants not counted).
- ⊖47/1.15. **Persicaria mitis** (Tasteless Water-pepper)(Y Dinboeth Ddi-flas). Several patches in large horse grazed fields in floodplain grassland, near Ogmore Castle, Ogmore by Sea, SS88477713, J.Woodman, 2011. Varies from 3-10 plants amongst 50-100 plants of *P.*
- ⊖+47/4.6. **Polygonum rurivagum** (Cornfield Knotgrass)(Canclwm y Tir Ár). Under M4 flyover, N of Afon Kenfig, Mawdlam, SS80388296, B.Stewart, 2011.
- ⊖52/1.1. **Tilia platyphyllos** (Large-leaved Lime)(Pisgwydden Dail Mawr). †Trees-scrub (canopy), Llantwit, Neath, SS762977, B.Stewart, 2011.
- +61/2.5×9. **Salix ×rubra** (**S. purpurea** × **S. viminalis**) (Green-leaved Willow)(Helygen Werdd). †Planted bush with 1 years regrowth, S of Loughor foreshore, SS570986, B.Stewart, 2011. 2nd record.
- ⊖61/2.10×11. **Salix ×reichardtii** (**S. caprea** × **S. cinerea**) (a hybrid willow). Bracken & scrub, Duffryn Rhondda, SS839957, B.Stewart, 2011.
- ⊖62/23.5. **Cochlearia danica** (Danish Scurvygrass)(Llwylys Denmarc). Near old Cymmer station, SS8596, C.& H.Hipkin, 2011.
- ⊕+62/35.2. **Sinapis alba** (White Mustard)(Mwstard Gwyn). Narrow strip along road verge bund, Jenkins Road, Neath, SS73119704, B.Stewart, 2011.
- ⊖66/1.1. **Pyrola minor** (Common Wintergreen)(Glesyn-y-gaeaf Bach). Large population scattered throughout birch/willow scrub, W Landore, SS6695, C.Hipkin, 2011. Also at SS6611695028, SS6610795069 and SS6612395086. Found originally by P.Neyland & W.Harris.
- ⊖66/1.3. **Pyrola rotundifolia** (Round-leaved Wintergreen)(Glesyn-y-gaeaf Deilgrwn). Approx. 40 rosettes, Forestry Road near Wind Farm, SS8397, C.& H.Hipkin, 2011.
- ⊕67/1.1. **Hypopitys monotropa** (Yellow Bird's-nest)(Cytwf). 5 spikes in dunes, Oxwich dunes (E), SS511876, D.Green, 2011.
- ⊖69/6.3. **Centunculus minimus** (Chaffweed)(Gwlyddyn-Mair Bach). Frequent in wetter areas of 5 fields, horse grazed and badly poached in areas. below Craig yr-allt, Caerphilly, ST131845, J.Woodman, 2011. With *Lythrum portula* & *Wahlenbergia hederacea*.
- ⊖+73/1.3. **Crassula helmsii** (New Zealand Pigmyweed)(Corchwyn Seland Newydd). Open end of pond, Jenkins Road, Neath, SS72969683, B.Stewart, 2011.
- ⊖+75/8.0.2. **Rubus tricolor** (Chinese Bramble)(Llwyn Mwyar Trilliw). 10m stretch by footpath (probably a throw-out), Barry Sidings Country Park, ST04849071, D.Barden, 2011. 2nd record.
- ⊖75/9.13×14. **Potentilla ×suberecta** (**P. erecta** × **P. anglica**) (a hybrid cinquefoil). Wet hollows, Jenkins Road, Neath, SS73019685, B.Stewart, 2011.
- ⊕75/9.14×15..s.s. **Potentilla ×mixta** (**P. anglica** × **P. reptans**) (Hybrid Cinquefoil)(Pumnalen Groesryw). Open ground, dry in summer, Baglan Moors, SS747914, B.Stewart, 2011.

- ☐75/12.1. **Potentilla indica** (Yellow-flowered Strawberry)(Llwyn Mefus Melyn). Well established in railway meadow, Cadoxton, SS7669911, B.Stewart, 2011. 1st record as a neophyte.
- ☐75/17.3.b. **Poterium sanguisorba** ssp. **balearicum** (Fodder Burnet)(Bwrned Ebran). Rhyslyn Afan Forest Park, SS8094, C. & H.Hipkin, 2011.
- ☐75/20.2. **Aphanes australis** (Slender Parsley-piert)(Troed-y-dryw Main). Small wall or mound, Castell-du, SN58450218, B.Stewart, 2011.
- ☐75/21.18. **Rosa rubiginosa** (Sweet-briar)(Drysiên Bêr). #1 scrambling plant in newish hedge by footpath, between ambulance entrance and A4119, Gwaun Elai, Llantrisant, ST0379084065, D.Barden, 2011. Later found to be planted in hospital grounds 50m away, so this is very likely the source of this plant.
- ⊕75/22.11. **Prunus padus** (Bird Cherry)(Coeden Geirios yr Adar). Planted in shrub scheme near Mountain Bike Centre, Glynccorwg, SS8798, C. & H.Hipkin, 2011.
- ⊕75/35.8. **Crataegus laevigata** (Midland Hawthorn)(Draenen Wen Lefn). #Woodland canopy, Coed Hirwaun, SS819844, B.Stewart, 2011.
- ☐77/2.1. **Galega officinalis** (Goat's-rue)(Nuw'r Geifr). 1 plant in waste ground in brown field site, Gwaun Elai, ST03788381, D.Barden, 2011.
- ☐77/8.1. **Lotus glaber** (Narrow-leaved Bird's-foot-trefoil)(Pysen-y-ceirw Gulddail). Nant Crymlyn, SS959832, P.Sturgess, 2011.
- ⊕77/19.1. **Trifolium ornithopodioides** (Bird's-foot Clover)(Corfeillionen Wen). A few plants in short turf at edge of low cliff, slightly S of where field boundary joins the coastal footpath, Ogmored-by-Sea, near Bwlch Bach, SS86177499, D.Barden, 2011. With *T. scabrum* and *T. striatum*. Just starting to flower; flowers pale, ±hairless leaves.
- ⊕77/19.22. **Trifolium scabrum** (Rough Clover)(Meillionen Arw). In flower and fairly frequent in short turf at edge of low cliff, Ogmored-by-Sea, near Bwlch Bach, SS8674, D.Barden, 2011. With *T. ornithopodioides* and *T. striatum* at SS86177499, and also further S along this stretch of cliff-top.
- ☐77/19.23. **Trifolium arvense** (Hare's-foot Clover)(Meillionen Gedennog). Cwmllynfell Village, SN7512, C. & H.Hipkin, 2011.
- ☐84/5.1. **Fuchsia magellanica** (Fuchsia)(Ffiwsia). 1 clump on roadside, SW side near sharp corner, Tonyrefail Road, Llantrisant, ST0391185186, D.Barden, 2011. Probably established here for some while, some distance from any habitation but conceivably a garden throw-out.
- ☐87/1.1. **Viscum album** (Mistletoe)(Uchelwydd). 3 established plants on apple, Sandy Lane, SS54798874, S.Allen, 2011.
- ☐100/1.1. **Rhus typhina** (Stag's-horn Sumach)(Siwmac). 2 young plants in hedgebank adjacent to house on S side of road, E of crossroads, Clawdd-Coch., ST056777, D.Barden, 2011.
- ☐103/1.4. **Geranium rotundifolium** (Round-leaved Crane's-bill)(Pig-yr-aran Grynnddail). Pontypridd Railway Station, ST070899, B.Stewart, 2011.
- ☐103/1.9. **Geranium sanguineum** (Bloody Crane's-bill)(Pig-yr-aran Ruddgoch). Sand dune, immediately N of Kenfig River, Margam Burrows, SS788834, B.Stewart, 2011.
- ☐103/1.14. **Geranium pyrenaicum** (Hedgerow Crane's-bill)(Pig-yr-aran y Gwrych). Lightly grazed field, Bryn, SS816924, B.Stewart, 2011.

- ⊕107/6.2. **Anthriscus caucalis** (Bur Chervil)(Gorthyfail Gwrychog). Single large plant in disturbed sandy grassland by path, Pennard Golf Course. SS5464588588, J.Woodman, 2011. Seedlings seen Feb 2012.
- ⊕107/41.2. **Heracleum mantegazzianum** agg. (Giant Hogweed)(Efwr Enfawr). Fen, Pant-y-sais Fen (W), SS7194, C.& H.Hipkin, 2011.
- ⊖108/4.1. **Blackstonia perfoliata** (Yellow-wort)(Y Ganrhi Felen). Abergarwed, SN8102, C.& H.Hipkin, 2011.
- ⊕‡116/3.1. **Pulmonaria officinalis** (Lungwort)(Llysiau'r Ysgyfaint). Blaengwrach, SN8604, C.& H.Hipkin, 2011.
- ⊖118/18.2. **Clinopodium ascendens** (Common Calamint)(Brenhinllys). A small patch, Baglan Energy Park (central), SS7392, C.& H.Hipkin, 2011.
- ⊖‡118/23.3×4. **Mentha × villosa** (**M. spicata** × **M. suaveolens**) (Apple-mint)(Mintys Lletgrwn). 1 large plant in waste ground near stream, hillside below Warren Mill Farm, Pendoylan, ST05897588, D.Barden, 2011.
- ⊖120/1.6.bru. **Callitriche brutia** ssp. **brutia** (Pedunculate Water-starwort)(Brigwlydd Coesog). On shingle and in river, Afon Lliw, W of M4, NE of Gorseinon, SN60190025, B.Stewart, 2011.
- ⊖124/18.1. **Sibthorpia europaea** (Cornish Moneywort)(Deilen Gron Cernyw). A few patches in damp pasture in partly dried-up ditch junction, 50m from river, close to steep part of bank, by Nant Muchudd, Llantrisant, ST03878439, D.Barden, 2011.
- *124/20.5. **Euphrasia arctica** (Arctic Eyebright)(Effros yr Arctig). Crymlyn Burrows West, SS7092; +Gyfylchi, SS8195; both C.& H.Hipkin, 2011. 1st records.
- ⊖124/20.9. **Euphrasia confusa** (Confused Eyebright)(Effros Gliniog). Lane verges field layer, Alltwen, SN731036, B.Stewart, 2011.
- ⊖124/20.18. **Euphrasia micrantha** (Slender Eyebright)(Effros Mân-flodeuog). Abergarwed, SN8102, C.& H.Hipkin; ⊖Disused railway line, Gelli-gaer Common, SO099062; ⊖Rush-heath-grassy edge mosaic, Gelli-gaer Common, SO104056; both, B.Stewart; all 2011.
- *130/6.14. **Galium parisiense** (Wall Bedstraw)(Briwydd y Mur). †A large population in gravelly waste ground, Baglan Energy Park (N), SS7393, C.& H.Hipkin, 2011. Also in grassy area behind The Quays civic building. Probably introduced; 1st Welsh record as a neophyte.
- ⊖135/11.deb.thu. **Centaurea debeauxii** ssp. **thuilleri** (Chalk Knapweed). Scrub, below Margam tip (NE), SS789839, B.Stewart, 2011.
- *‡135/25.8.96. **Taraxacum prionum** (Saw-leaved Dandelion). Hailey Park, Llandaff North, ST1479, T.C.G.Rich, 2011, det. A.J.Richards.
- *‡135/25.9.122. **Taraxacum corynodes** (Dense-lobed Dandelion). Parkland, Hailey Park, ST1479, T.C.G.Rich, 2011, det. A.J.Richards.
- *‡135/25.9.129. **Taraxacum dilaceratum** M.P.Christ. (Lacerate-leaved Dandelion). Car-park, Whitchurch club, Whitchurch, ST154801, T.C.G.Rich, 2011, det. A.J.Richards.
- *‡135/25.9.141. **Taraxacum huelphersianum** (Hülphers's Dandelion). Corner of Heol Llanishen Fach, Rhiwbina. ST156816, T.C.G.Rich, 2011, det. A.J.Richards.
- *‡135/25.9.162. **Taraxacum macrolobum** (Incise-lobed Dandelion). Car-park, 'ceramics', Leckwith, ST16157527, T.C.G.Rich, 2011, det. A.J.Richards.
- *‡135/25.9.182. **Taraxacum pannulatum** (Brown-ribbed Dandelion). Grassland, Coryton Interchange, ST1481, T.C.G.Rich, 2011, det. A.J.Richards.

- *‡135/25.9.196. **Taraxacum scotiniforme** (Deltoid-lobed Dandelion). Verge opposite ice-rink, Cardiff Bay, ST18167298, T.C.G.Rich, 2011, det. A.J.Richards.
- *‡135/25.9.212. **Taraxacum tanyphyllum** (Spreading-lobed Dandelion). Waste ground by sign, Penarth Road, Leckwith, ST17277470, T.C.G.Rich, 2011, det. A.J.Richards.
- *‡135/25.9.sun. **Taraxacum sundbergii** (Sundberg's Dandelion). Grassland NE side of Gabalfa Interchange, NE side of Gabalfa Interchange, Cardiff, ST169792, T.C.G.Rich, 2011, det. A.J.Richards.
- ⊠‡135/44.2. **Conyza sumatrensis** (Guernsey Fleabane)(Amrhydlywd Guernsey). ASDA roundabout and adjacent verges, Gorseinon, SS594987, B.Stewart; ⊠Barrage N & dock surrounds, Cardiff Bay, ST1973; ⊠East Moors (E), Cardiff, ST2175; both T.Rich & S.Whild; all 2011.
- *‡135/44.flo. **Conyza floribunda** (Bilbao Fleabane). Abernant Cefn Coed, SN7802; ⊠Craig Ynysbwllog, SN8001; both C.& H.Hipkin, ⊠Margam Burrows, SS780835, B.Stewart; ⊠Cathays Park, Cardiff, ST1877, T.Rich & S.Whild; all 2011. 1st records.
- *‡135/61.1. **Cotula coronopifolia** (Buttonweed)(Blodyn Botwm). Tidal river bank mud and saltmarsh, South of Portobello Island, Ogmore, SS874763, D.Rich, 2011. 1st Welsh record; scattered across saltmarsh in muddy pools, etc.
- ⊠135/62.12. **Senecio erucifolius** (Hoary Ragwort)(Creulys Lwyd). Pontardawe, SN7304; ⊠Gyfylchi, SS8195; both C.& H.Hipkin, 2011.
- ⊠‡135/80.2. **Galinsoga quadriradiata** (Shaggy Soldier)(Galinsoga Blewog). ©1 plant on cobbles by road, Gwaun Elai, Llantrisant, ambulance entrance to hospital, ST03818396, D.Barden, 2011.
- ⊠145/1.1. **Zannichellia palustris** (Horned Pondweed)(Llynwlyddyn Corniog). Small pond in floodplain grassland, near Ogmore castle, Ogmore by sea, SS8858277187, J.Woodman, 2011.
- ⊠151/1.6. **Juncus foliosus** (Leafy Rush)(Brwynen Ddeiliog). Pant-y-sais riding stables, SS71839371, B.Stewart, 2011.
- ⊠151/1.26×27. **Juncus ×kern-reichgeltii (J. effusus × J. conglomeratus)** (a hybrid rush). Purple Moor-grass dominated area, Gelli-gaer Common, SO104058; ⊠Whitemoor bog, Rhossili Down, SS42669046; both B.Stewart, 2011. 1st recent records.
- ⊠152/5.1. **Scirpus sylvaticus** (Wood Club-rush)(Clwbfrwynen Bengron). Gas pipeline ride, Bryncoch, SN738005, B.Stewart, 2011.
- ⊠152/7.1. **Schoenoplectus lacustris** (Common Club-rush)(Llafwrwynen). In reed filter beds. Nant Corrwg Valley, SS8899; ⊠Planted as part of iron pollution reed filter bed scheme, Crugau, Resolven, SN8303; both C.& H.Hipkin, 2011.
- ⊠152/11.1. **Cyperus longus** (Galingale)(Ysnoden Fair). ‡Roadside verge, Waun Sterw, Pontardawe, SN716052; ⊠Village pond, Coed Hirwaun, SS81998454; both B.Stewart, 2011. Almost certainly introduced.
- ⊠152/16.11. **Carex disticha** (Brown Sedge)(Hesgen Lygliw). Small pond in floodplain grassland, Near Ogmore Castle, Ogmore by sea, SS8858277187, J.Woodman, 2011.
- ⊠152/16.44×46. **Carex ×fulva (C. hostiana × C. viridula)** (a hybrid sedge). Cwm yr Argoed, SN8704, C. & H.Hipkin; ⊠New dune slack, Whiteford, SS434943, B.Stewart; ⊠Little Hills Farm, SS54099272, D.Green, K.P., R.D.Pryce, B.Stewart & J.P.Woodman; all 2011.
- *‡153/12.15. **Festuca brevipila** (Hard Fescue)(Peiswellt Caled). ASDA roundabout and adjacent verges, Gorseinon, SS594987, B.Stewart, 2011.

- 153/39.6. **Agrostis curtisii** (Bristle Bent)(Maeswellt Gwrychog). Blaengarw, SS907933, P.Sturgess, 2011.
- ⊕#153/43.1. **Lagarus ovatus** (Hare's-tail)(Cynffon Ysgyfarnog). ©1 robust, multi-headed plant on concreted bank of River Taff, under Cowbridge Road bridge, Cardiff, ST176763, J.N.Davies, 2011.
- ⊕153/50.2. **Bromus commutatus** (Meadow Brome)(Pawrwellt y Ddôl). Ponds, and surrounds, N of Gaer Wood near Bonvilston, ST063749, R.& L.Nottage, 2011.
- 153/51.3. **Bromopsis erecta** (Upright Brome)(Pawrwellt Talsyth). Coed-y-Morfa, SS915805, P.Sturgess, 2011.
- 154/1.3. **Sparganium angustifolium** (Floating Bur-reed)(Cleddlys Arnofiol). Seven Sisters forest, SN83560805, B.Stewart, 2011.
- 158/17.1. **Paris quadrifolia** (Herb-Paris)(Cwlwm Cariad). Coed-y-Gains, SS893814, P.Sturgess, 2011.
- *#158/32.2. **Galanthus elwesii** (Greater Snowdrop)(Eirlys Elwes). Betty Church woodland, SS439936, B.Stewart & V.Shenston, 2011.
- *#158/33.5.b. **Narcissus obvallaris** (Tenby Daffodil)(Cenhinen-Bedr Penfro). Grongae Church, Penclawdd, SS548948, B.Stewart, 2011.
- 162/7.1. **Spiranthes spiralis** (Autumn Lady's-tresses)(Troellig yr Hydref). 10 plants, Baglan Energy Park (central), SS7392, C.& H.Hipkin, 2011.
- 162/14.1. **Anacamptis pyramidalis** (Pyramidal Orchid)(Tegeirian Bera). 1 fine flowering plant in long grass of daffodil border, outside main entrance to Royal Glamorgan Hospital, Gwaun Elai, Llantrisant, ST0355784086, D.Barden, 2011. Mown-around a week later, but gone by the end of the month.
- ⊗162/18.2×4. **Dactylorhiza ×hallii** (**D. maculata** × **D. praetermissa**) (a hybrid Marsh-orchid). Whitemoor bog, Rhossili Down, SS42669046, B.Stewart; ⊗Little Hills Farm, SS54129268, D.Green, K.P., R.D.Pryce, B.Stewart & J.P.Woodman; both 2011. 1st recent records.
- 162/23.3. **Ophrys apifera** (Bee Orchid)(Tegeirian y Wenynen). Coed-y-Morfa, SS915805, P.Sturgess, 2011.

BRECON, v.c.42 (comm. M.Porter)

- ⊕1/3.1. **Lycopodium clavatum** (Stag's-horn Clubmoss)(Cnwp-fwsogl Corn Carw). 1 plant in moorland, Carn Gafallt, 3km SW of Rhayadr, SN949648, K.Perry, 2011. Last recorded in this hectad in 1940.
- +4/1.4×5. **Equisetum ×litorale** (**E. fluviatile** × **E. arvense**) (Shore Horsetail)(Marchrawnen y Glennydd). Edge of lake, Llangorse Lake, SO1227, BSBI meeting, 2010, det. R.G.Woods et al.
- +51/1.6×7. **Hypericum ×desetangii** (**H. perforatum** × **H. maculatum**) (Des Etangs' St John's-wort)(Eurinllys Des Etangs). Rough meadow near lake, Llangasty Tallyllyn, SO122262, BSBI meeting, 2010, det. R.G.Woods et al.

- +61/2.9×1. **Salix ×smithiana** (**S. viminalis** × **S. caprea**) (Broad-leaved Osier)(Helygen-wial Lydanddail). Scrub beside canal towpath, 3 km E of Llangynidr, SO184193, M.& C.Porter, 2011.
- *‡71/1.1. **Philadelphus coronarius** (Mock-orange)(Ffug-oren). Riverbank, Hay-on-Wye, SO228425, J.Crellin, 2009.
- +75/8.13.vag. **Rubus vagensis** (Wye Bramble)(Tafolen Grech). Scrub, edge of Henallt Common, SO237397, M.& C.Porter, 2011.
- +‡75/11.3. **Fragaria ananassa** (Garden Strawberry)(Llwyn Mefus y Gerddi). Road verge, Hay-on-Wye, SO227421, J.Crellin, 2009.
- +77/14.8. **Vicia tetrasperma** (Smooth Tare)(Ffacbysen Lefn). Road verge, 4 km NE of Brecon, SO087319, M.& C.Porter, 2011.
- +77/15.12. **Lathyrus nissolia** (Grass Vetchling)(Ytbyesen Feinddail). ‡Road verge, 4 km NE of Brecon, SO087318, R.G.Woods, 2011.
- *77/16.3. **Ononis spinosa** (Spiny Restharrow)(Tagaradr Pigog). ‡Newly constructed road bank, Bronllys, SO147352, J.Crellin, 2009, hb MP. 7 large plants seen in 2011.
- *‡96/1.1. **Staphylea pinnata** (Bladdernut)(Cneuen Godog). Deserted garden, Digedi valley, 2 km S of Llanigon, SO221380, L.Wibberley & J.Crellin, 2008.
- ‡131/5.1. **Leycesteria formosa** (Himalayan Honeysuckle)(Bachgen Llwm). Margin of wood, Myarth plantation, 2 km E of Llangynidr, SO181199, M.& C.Porter, 2011.
- +‡135/12.1. **Cichorium intybus** (Chicory)(Ysgello). Road verge, 3 km E of Llangynidr, SO185193, M.& C.Porter, 2011.
- +‡135/22.1. **Lactuca serriola** (Prickly Lettuce)(Letusen Bigog). Churchyard, Hay-on-Wye, SO225421, J.Crellin, 2009.
- ⊗135/28.7.62. **Hieracium vulgatum** (Common Hawkweed). Top of wall, near Craig y Nos, Nant Tawe, SN839154, D.Green, 2011, NMW, det. D.J.McCosh. 1st recent record.
- *135/28.7.65. **Hieracium lepidulum** (Irregular-toothed Hawkweed). ‡Top of wall, near Craig y Nos, Nant Tawe, SN840152, D.Green, 2011, NMW, det. D.J.McCosh.
- +135/28.7.70. **Hieracium diaphanoides** (Diaphanous Hawkweed). Rock outcrops, Darren Lwyd, SO243330, D.Green, 2011, det. D.J.McCosh.
- ⊗135/28.8.136. **Hieracium sublepistoides** (Grey-bracted Hawkweed). Limestone cliff, Darren Cilau, 3 km S of Llangattock, SO208159, D.Green, 2011, det. D.J.McCosh. 1st recent record.
- +135/48.3. **Tanacetum vulgare** (Tansy)(Tansi). Roadside ditch, 1 km SE of Bwlch, SO156212, M.& C.Porter, 2011.
- +‡135/71.2. **Petasites japonicus** (Giant Butterbur)(Yr Alan Mwyaf). Spreading from garden through hedge on to road verge, Llanfihangel Cwmdru, SO178232, M.& C.Porter, 2010.
- *‡148/2.tur. **Lemna turionifera** (Red Duckweed). Edge of lake, Llangorse Lake, SO1227, BSBI meeting, 2010, det. M.Kitchen.
- ⊕152/16.8.b. **Carex muricata** ssp. **pairae** (Small-fruited Prickly-sedge). Lane bank, near Crickadarn, SO084422, M.& C.Porter, 2011.
- ⊕152/16.73. **Carex pulicaris** (Flea Sedge)(Hesgen y Chwain). Damp rough pasture, near Bwlch, SO158216, M.& C.Porter, 2011.
- +153/18.9. **Poa compressa** (Flattened Meadow-grass)(Gweunwellt Cywasgedig). Road verge, 4 km NE of Brecon, SO087318, R.G.Woods, 2011.

- +153/39.8. **Agrostis vinealis** (Brown Bent)(Maeswellt-y-cwn y Mynydd). Lane bank, edge of Henallt Common, SO234401, M.& C.Porter, 2011.
- +158/20.2×3. **Hyacinthoides** × **massartiana** (**H. hispanica** × **H. non-scripta**) (Hybrid Bluebell) (Clychau'r-gog Croesryw). ‡Canal towpath, 3 km E of Llangynidr, SO182195, M.& C.Porter, 2011.
- +162/3.1. **Epipactis palustris** (Marsh Helleborine)(Caldrist y Gors). Road verge and bank, 4 km NE of Brecon, SO087318, R.G.Woods, 2011. 330 inflorescences counted on 30/6/2011.
- +162/23.3. **Ophrys apifera** (Bee Orchid)(Tegeirian y Wenynen). ©Grassland on edge of car park, Brecon, SO053280, K.Noble, 2011. 2nd record about 2 km from 2009 discovery.

RADNOR, v.c.43 (comm. Miss E.R.Dean & Mrs S.M.Spencer)

- +†30/1.4. **Papaver rhoeas** (Common Poppy)(Pabi Coch). At edge of pavement beside railway bridge to W of station, Llandrindod Wells, SO057611, R.G.Woods, 2011.
- +†43/1.8. **Chenopodium polyspermum** (Many-seeded goosefoot)(Troed-yr-wydd Amlhadog). In vegetable garden bed, Dwyfnant, Newbridge on Wye, SO0243459860, R.G.Woods, 2011.
- *†47/4.6. **Polygonum rurivagum** (Cornfield Knotgrass)(Canclwm y Tir Âr). Waste ground to east of Tesco supermarket, Llandrindod Wells, SO059618, R.G.Woods, 2011.
- +57/1.12.a. **Viola tricolor** ssp. **tricolor** (Wild Pansy)(Trilliw). Recently constructed side road verge near the BSW Sawmill, Newbridge on Wye, SO0216355742, R.G.Woods, 2011.
- 62/14.6. **Cardamine impatiens** (Narrow-leaved Bitter-cress)(Berwr Chwerw Culddail). Recently disturbed bank of old quarry spoil beside newly created bridle way just to E of the A483 to the S of the entrance to, Llanelwedd Quarry, Llanelwedd, SO047519, R.G.Woods, 2011.
- +‡73/1.3. **Crassula helmsii** (New Zealand Pigmyweed)(Corchwyn Seland Newydd). Mud of ephemeral pool on common land, near Llandeilo Graban, SO105456, R.G.Woods, 2011.
- ⊗+75/6.1. **Filipendula vulgaris** (Dropwort)(Y Grogedau). On grass verges in front of Llandrindod Wells hospital SO06064.61458, A.Shaw. 2011. 1st published record.
- ‡75/9.1. **Potentilla fruticosa** (Shrubby Cinquefoil)(Llwyn Pumnalen). ©Gravel of waste ground at edge of industrial estate, Llanelwedd, SO055516, R.G.Woods, 2011.
- +81/1.1. **Lythrum salicaria** (Purple Loosetrite)(Llysiau'r-milwr Coch). Edge of ornamental pond on verge, in centre of Kinnerton, SO244630, R.G.Woods, 2011. Possibly planted but now a very rare plant in the v.c.
- +‡103/1.14. **Geranium pyrenaicum** (Hedgerow Crane's-bill)(Pig-yr-aran y Gwrych). Several plants on road verge the SW of the school, Gladestry, SO232551, R.G.Woods, 2011.
- +†107/25.1. **Conium maculatum** (Hemlock)(Cegiden). 1 plant at edge of road, Dwyfnant, Newbridge on Wye, SO0243459860, R.G.Woods, 2011.
- †118/1.8. **Stachys arvensis** (Field Woundwort)(Briwllys y Tir Âr). Vegetable garden bed, Dwyfnant, Newbridge on Wye, SO0243459860, R.G.Woods, 2011.
- +†118/2.1. **Ballota nigra** (Black Horehound). (Marddanhadlen Ddu). 1 plant on road verge opposite the school, Gladestry, SO232551, R.G.Woods, 2011.

- †124/12.1. **Kickxia elatine** (Sharp-leaved Fluellen)(Llyisiau-Llywelyn). Garden bed, Dwyfnant, Newbridge on Wye, SO0243459860, R.G.Woods, 2011.
- +130/3.1. **Sherardia arvensis** (Field Madder)(Mandon Las yr Yd). Limestone chippings beside barn, Cwm Berllan, Rhulen, SO139500, D.E.Parry, 2011, conf. R.G.Woods.
- ⊖130/6.7. **Galium album** (Hedge Bedstraw)(Briwydd y Clawdd). Road verge beside B4594, to SW of Fronhowey, Painscastle, SO1549446359; ⊖Road verge, in the centre of Gladestry, SO232551; both R.G.Woods, 2011.
- +†135/22.1. **Lactuca serriola** (Prickly Lettuce)(Letusen Bigog). 1 plant, mowed before setting seed, in waste ground to E of Tesco supermarket, Llandrindod Wells, SO059618, R.G.Woods, 2011. 1 plant, mowed before setting seed.
- ⊗†135/27.4.a. **Pilosella praealta** ssp. **praealta** (Tall Mouse-ear-hawkweed). Gravel at edge of timber yard and former railway sidings, Builth Road, SO0241053285, R.G.Woods, 2011. 1st recent record.
- ‡135/71.4. **Petasites fragrans** (Winter Heliotrope)(Alan Pêr). Secondary woodland on old quarry workings, Llanelwedd, SO049518, R.G.Woods, 2011.
- *‡135/80.2. **Galinsoga quadriradiata** (Shaggy Soldier)(Galinsoga Blewog). Broken area of tarmac between the pavement and the market area near the railway station, Llandrindod Wells, SO0598761445, R.G.Woods, 2011.
- ⊗151/1.11. **Juncus subnodulosus** (Blunt-flowered Rush)(Brwynen Flaendon). By well-developed mesotrophic pond, S of Llandegley Rocks, SO3132026010. D.Ardeshir, 2011. 1st record since 1948.
- +158/14.1. **Polygonatum multiflorum** (Solomon's-seal)(Llyisiau-Solomon). ©Single plant on bank of the Edw, SO12385169, J.P.Woodman, 2011.
- ⊗162/5.1. **Neottia nidus-avis** (Bird's-nest Orchid)(Tegeirian Nyth Aderyn). 1 spike in Bach Howey Gorge, SO120435, M.Lawley. 2011. 1st record since 1880.
- 162/18.4. **Dactylorhiza praetermissa** (Southern Marsh-orchid)(Tegeirian-y-gors Deheuol). Single flowering specimen in hay meadow, Dwyfnant, Newbridge on Wye, SO0249259796, R.G.Woods & E.Fleming-Williams, 2011.

CARMARTHEN, v.c.44 (comm. R.D.Pryce)

- +4/1.4. **Equisetum fluviatile** (Water Horsetail)(Marchrawnyn y Dwr). Wet rushy patch in corner of field. Maesyrcugiau, SN47554121, R.D.& K.A.Pryce, 2011.
- +17/3.8. **Dryopteris carthusiana** (Narrow Buckler-fern)(Marchredynen Gul). In cattle-grazed tussocky Molinia dominated grassland, Rhos Pwll-y-Gawnen SSSI, SN29072984, BSBI meeting, 2011, det. A.O.Chater, G.M.Kay & J.Poland.
- +17/3.c. **Dryopteris affinis** ssp. **borreri** (Borrer's Male-fern). In oak woodland on top of 4-5m face in shale quarry, Penlan Quarry, Bethesda, SN08551868, R.D.& K.A.Pryce, 2011.
- +‡20/2.1. **Pseudotsuga menziesii** (Douglas Fir)(Ffynidwydden Douglas). Rare self-sown seedlings in broad-leaf woodland, Coed Ystrad, Alltynap TN1104, SN39211885, R.D.& K.A.Pryce, 2011.

- +‡20/3.1. **Tsuga heterophylla** (Western Hemlock-spruce)(Sbriwsen-Hemlog y Gorllewin). 1 self sown ‘bush’ by access track to shale quarry, Penlan Quarry, Bethesda, SN0880818581, R.D.& K.A.Pryce, 2011.
- +‡20/4.1. **Picea sitchensis** (Sitka Spruce)(Sbriwsen Sitca). Self-sown seedling in woodland in shale quarry at confluence of Eastern Cleddau River and side stream, both marking boundary of vice county, Penlan Quarry, Bethesda, SN08401870, R.D.& K.A.Pryce, 2011.
- +‡20/7.3. **Pinus contorta** (Lodgepole Pine)(Pinwydden Gamfrig). Self-sown by pond near shale quarry entrance, Penlan Quarry, Bethesda, SN09141853, R.D.& K.A.Pryce, 2011.
- 21/4.1. **Juniperus communis** (Juniper)(Merywen). Cruggie loidyr [believed to be Creigiau Ladis], Mynydd Mallaen, SN7245, William Price, 1698, Edward Llwyd. Coll. William Price (Vicar of Cynwyl Elfed) and det. by Edward Llwyd. Reported in ‘Edward Lhwyd in Carmarthenshire’ by Brinley Roberts, The Carmarthenshire Antiquary 2010:33-34.
- +‡28/3.2. **Helleborus viridis** (Green Hellebore)(Crafanc-yr-arth Werdd). Throw-out in disturbed ground, Rhos Llangelor Common, SN38053528, R.D.& K.A.Pryce, 2011. Scrubby area by road with numerous naturalised or established garden throw-outs amongst piles of grass-clippings and hedge cuttings.
- +28/13.11. **Ranunculus sceleratus** (Celery-leaved Buttercup)(Crafanc yr Eryr). 1 plant in very sparse vegetation by 10m × 4m puddle. site of former Brynsiencin Colliery (Cynheidre Shafts 3 & 4), 2km WSW of Tumble. SN52591073, R.D.& K.A.Pryce, 2011.
- +28/13.17.b. **Ficaria verna** ssp. **verna** (Lesser Celandine)(Llygad Ebrill). Scrub on river flood-plain, Allt Goch, Cenarth, SN25884211, A.O.Chater, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- ⊕30/4.1. **Glaucium flavum** (Yellow Horned-poppy)(Pabi Corniog Melyn). 1 plant on upper sandy/pebbly strand-line shingle at edge of *Hippophae* thicket, near Undercliff, Ferryside, SN36290944, A.Stevens, 2011. 1st post 1970 hectad record and 1st from the Tywi estuary for at least 50 years.
- +31/4.1. **Ceratocapnos claviculata** (Climbing Corydalis)(Mwg-y-ddaear Dringol). Broad-leaf woodland, Allt Goch, Cenarth, SN26024156, A.O.Chater, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +39/1.1. **Fagus sylvatica** (Beech)(Ffawyddden). †Mature tree at top of west end of north face of shale quarry:, Penlan Quarry, Bethesda, SN0851118710, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +‡43/1.8. **Chenopodium polyspermum** (Many-seeded goosefoot)(Troed-yr-wydd Amlhadog). Farmyard weed, 3 plants in cracks between concrete slabs forming base of silage store, Caeau Blaen Bydernyn SSSI, near Llanybydder, SN55654376, BSBI meeting, 2011, det. G.M.Kay. 1st record for v.c.44 part of hectad.
- +43/1.15. **Chenopodium album** (Fat-hen)(Troed-yr-wydd Gwyn). NE end of shale bund in shale quarry, Penlan Quarry, Bethesda, SN08661877, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- *‡43/1.qui. **Chenopodium quinoa** (Quinoa). Field sown with ‘bird-seed mix’, Acheth Isaf, Abergorlech, SN594353, I.K.Morgan, 2003. Not persisting the following year when BSBI members visited the farm; +1 self-sown plant in compost storage clamp (for spreading on maize fields), Penlan Isaf Farm, Kidwelly, SN40220828, R.D.& K.A.Pryce, 2011. Material obtained from municipal composting facility in Neath Port Talbot. +Arable field headland, Penlan Farms, Kidwelly, SN39860768, West Wales Biological Information Centre

- Recording Meeting, 2011. Barley field headlands sown to produce bird-seed including abundant *Phacelia*, sunflower and Quinoa.
- +‡45/2.1. **Claytonia perfoliata** (Springbeauty)(Porpin y Gwanwyn). Self-sowing in walled garden, Glynhir Mansion, Llandybie, SN63981509, R.D.Pryce, 2011. 1st recent published record.
- +46/2.1. **Moehringia trinervia** (Three-nerved Sandwort)(Tywodlys Teirnerf). In open grassy area in former shale quarry in woodland, Penlan Quarry, Bethesda, SN08431871; +Rocky river bank, Allt Goch, Cenarth, SN26164148, A.O.Chater; both R.D.& K.A.Pryce, 2011. 1st records for v.c.44 part of hectads.
- +46/5.4. **Stellaria neglecta** (Greater Chickweed)(Gwlyddyn-y-dom Mawr). Rocky river bank, Allt Goch, Cenarth, SN26164148, A.O.Chater, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +46/17.4. **Spergularia rubra** (Sand Spurrey)(Troellig Arfor Coch). At least one flowering plant in shale-surfaced forest road, Tyllwyd area, Brechfa Forest, SN48873047, BSBI meeting, 2011, det. R.D.Pryce.
- *‡46/18.cha. **Lychnis chalconica** (Maltese-Cross)(Croes Malta). ©Established at edge of urban park, Hendy, SN58020352, K.Pryce & M.Godfrey, 2011. 1st published record.
- +‡47/5.4. **Fallopia convolvulus** (Black-bindweed)(Y Glymog Ddu). Arable field headland in unsurfaced yard in front of new agricultural shed, Penlan Farms, Kidwelly, SN39980762, WWBIC recording meeting, 2011, det. R.D.Pryce.
- +47/8.15. **Rumex sanguineus** (Wood Dock)(Tafolen y Coed). Low area at foot of southern shale quarry face, Penlan Quarry, Bethesda, SN08541868, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +51/1.6. **Hypericum perforatum** (Perforate St John's-wort)(Eurinllys Trydwl). On old vegetated, rock face on north side of track in shale quarry, Penlan Quarry, Bethesda, SN09061854, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +51/1.6×7. **Hypericum ×desetangii** (**H. perforatum** × **H. maculatum**) (Des Etangs' St John's-wort)(Eurinllys Des Etangs). 2 or 3 plants on north side of old quarry in arable field headland, Penlan Farms, Kidwelly, SN39820775, WWBIC recording meeting, 2011, det. R.D.Pryce.
- +‡57/1.13. **Viola arvensis** (Field Pansy)(Trilliw'r Tir Âr). Several plants on shale mounds with weedy growth on quarry floor, Penlan Quarry, Bethesda, SN08581872, R.D.& K.A.Pryce, 2011. Well drained site includes several arable weeds. 1st record for v.c.44 part of hectad.
- *©60/CUT.max. **Cucurbita maxima** (Pumpkin)(Pwmpen). Several self-sown plants with large fruits. In compost storage clamp (for spreading on maize fields), Penlan Isaf Farm, Kidwelly, SN40230829, R.D.& K.A.Pryce, 2011. 1st Welsh record. Material obtained from municipal composting facility in Neath Port Talbot.
- +‡61/2.2. **Salix euxina** (Crack-willow)(Helygen Frau). At least 2 trees, dying back, in scrub on river flood-plain, Allt Goch, Cenarth, SN25794229, A.O.Chater, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +‡61/2.4. **Salix triandra** (Almond Willow)(Helygen Dribrigerog). 1 plant in young willow carr on slope and spreading into quarry lake in disused limestone quarry, Blaenyfan Quarry, Meinciau, SN45721158, R.D.& K.A.Pryce, 2011.

- +61/2.10×11. **Salix ×reichardtii** (**S. caprea** × **S. cinerea**) (a hybrid willow). S side of field in scattered scrub, Caeau Blaen Bydernyn SSSI, near Llanybydder, SN55844383, BSBI meeting, 2011, det. A.O.Chater, G.M.Kay & J.Poland.
- +61/2.11×12. **Salix ×multinervis** (**S. cinerea** × **S. aurita**) (a hybrid willow). In scrub colonising Molinia dominated grassland. Caeau Blaen Bydernyn SSSI, near Llanybydder, SN55934381, BSBI meeting, 2011, det. A.O.Chater, G.M.Kay & J.Poland.
- +62/12.3. **Rorippa islandica** (Northern Yellow-cress)(Berwr Melyn Gogleddol). At least 500 plants in sparsely vegetated mud at eastern end of dry flood attenuation lagoon, 'Cuddy Scrape', Morfa, Llanelli, SS52389871, R.D.Pryce, 2011.
- +62/22.1.agg. **Erophila verna** agg. (Common Whitlowgrass)(Llysiâu'r-bystwn Cynnar). Grass-dominated area of quarry floor, dry with wet puddled areas in shale quarry, Penlan Quarry, Bethesda, SN08581870, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +62/31.2. **Coronopus didymus** (Lesser Swine-cress)(Olbrain Bach). Scrub on river flood-plain, Allt Goch, Cenarth, SN25794229, A.O.Chater, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +62/33.1. **Diploxys tenuifolia** (Perennial Wall-rocket)(Roced-y-muriau Meinddail). At least 20 plants on gravel access road leading to domestic garages adjacent to park, Whitland, SN2005016655, R.D.Pryce, 2011.
- +65/13.6. **Vaccinium myrtillus** (Bilberry)(Llusen). In open woodland by stream marking v.c. boundary under mature oak, sycamore and ash woodland in shale quarry, Penlan Quarry, Bethesda, SN08511865, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- *69/4.cle. **Lysimachia clethroides** (Gooseneck Loosestrife). Spreading patch on bank, discarded from adjacent garden. Pengay near Ferryside, 22/373085, I.K.Morgan, 2011.
- *73/5.4. **Sedum spectabile** (Butterfly Stonecrop)(Briweg Iâr Fach yr Haf). 1 clump dumped with *Hyacinthoides* hybrid in disturbed ground at NE corner of harbour, Pembrey Harbour, SN43770024, R.D.& K.A.Pryce, 2011. 1st published record.
- +74/7.1. **Tolmiea menziesii** (Pick-a-back-plant)(Crydlys). Well naturalized on riverbank on island in Afon Teifi under youngish woodland, Pont Llwni, Maesycrigiau, SN47224118, R.D.& K.A.Pryce, 2011.
- ⊗75/8.0.3. **Rubus saxatilis** (Stone Bramble)(Corfiaren). Rocky upland streamside, RSPB Gwenffrwd Reserve, SN740478, S.D.S.Bosanquet, 2011. Abundant over 2×4 m of one base-rich rockface just downstream of cascade with big boulder below it. 1st record away from Mynydd Du (where it is still extant) and 1st recent published record.
- +75/8.13.3.13. **Rubus nemoralis** (Boreal Bramble). Growing over stone wall into urban back-lane, Burry Port, SN4460900932, K.A.Pryce & M.Godfrey, 2011, det. A.O.Chater.
- +75/13.1×2. **Geum ×intermedium** (**G. rivale** × **G. urbanum**) (Hybrid Avens)(Mapgoll Groesryw). 1 plant self sown in crack in concrete path in garden, Trevethin, School Road, Pwll, SN4770701221, R.D.& K.A.Pryce, 2011. Both parents in vicinity.
- +75/19.15. **Alchemilla mollis** (Soft Lady's-mantle)(Mantell-Fair y Gerddi). ©Garden throw-out on spoil mound in shale quarry, Penlan Quarry, Bethesda, SN09091855, R.D.& K.A.Pryce, 2011.
- +75/20.2. **Aphanes australis** (Slender Parsley-piert)(Troed-y-dryw Main). Calcareous grassland, on deeper soils near road, Pal-y-Cwrt, Mynydd Du, SN67401804, R.D.& K.A.Pryce, 2011. Also by limestone outcrops at SN67481813.

- +75/21.12.Dum. **Rosa canina** group ‘**Dumales**’ (a dog-rose). Hedgerow at N end of Drove Lane, Caeau Blaen Bydernyn SSSI, near Llanybydder, SN55754386, BSBI meeting, 2011, det. A.O.Chater.
- +77/10.3. **Ornithopus perpusillus** (Bird’s-foot)(Troed yr Aderyn). One plant on shale mounds with weedy growth on shale quarry floor, Penlan Quarry, Bethesda, SN08581872, R.D.& K.A.Pryce, 2011. Well drained site includes several arable weeds. 1st record for v.c.44 part of hectad.
- +77/15.3. **Lathyrus linifolius** (Bitter-vetch)(Ytbysen y Coed). Cut grassy hedgebank, near Ffosfach Uchaf, Pencoed Road, Bynea, SS55459968, BSBI meeting, 2011, det. R.D.Pryce. 1st record for v.c.44 part of hectad.
- +77/15.3.mon. **Lathyrus linifolius** var. **montanus** (Bitter-vetch)(Ytbysen y Coed). Dry acid rhos-grassland, St James Church, Rhos, SN3799135304, R.D.& K.A.Pryce, 2011. Southern end of roadside churchyard boundary bank of acid heathy grassland, mostly trimmed to <5cm height, including *Calluna* and *Vaccinium myrtillus*. 1st record for var.
- ⊗⊙77/17.sul. **Melilotus sulcatus** (Furrowed Melilot)(Yr Wydro Rychog). 1 well-grown, self-sown, flowering plant in compost storage clamp (for spreading on maize fields), Penlan Isaf Farm, Kidwelly, SN40220828, R.D.& K.A.Pryce, 2011, NMW, det. D.A.Pearman; conf. T.G.Evans. 1st recent Welsh record. Material obtained from municipal composting facility in Neath Port Talbot.
- ⊗±77/22.1×2. **Laburnum ×watereri** (**L. anagyroides** × **L. alpinum**) (Hybrid Laburnum). Forming long, mature hedge on bank, Rhos Pwll-y-Gawnen SSSI, SN29373041, BSBI meeting, 2011, det. A.O.Chater, G.M.Kay & J.Poland. 1st record as a neophyte. Established but probably originally planted.
- +84/1.1. **Epilobium hirsutum** (Great Willowherb)(Helyglys Pêr). Wet, muddy, grass-dominated areas at foot of face in old shale quarry, Penlan Quarry, Bethesda, SN08571868, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +84/1.4. **Epilobium lanceolatum** (Spear-leaved Willowherb)(Helyglys Gwaywddail). 1 plant on dry flood attenuation lagoon, ‘Cuddy Scrape’, Morfa, Llanelli, SS52509878, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +84/1.7. **Epilobium roseum** (Pale Willowherb)(Helyglys Gwelw). At least three plants at edge of tarmac forecourt, Carmel Hall, SN58741640, WWBIC & Grasslands Trust recording meeting, 2011, det. R.D.Pryce.
- +±84/1.12. **Epilobium brunescens** (New Zealand Willowherb)(Helyglys Seland Newydd). Occasional in disturbed ground between neatly mown/trimmed graves, St James Church, Rhos, SN38003531, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- *84/4.1×3. **Oenothera biennis** (f) × **O.glazioviana** (m) (a hybrid Evening-primrose). 1 large flowering plant on compost storage clamp (for spreading on maize fields). Penlan Isaf Farm, Kidwelly, SN40220828, R.D.& K.A.Pryce, 2011, det. R.Murphy. Material obtained from municipal composting facility in Neath Port Talbot. Rose Murphy commented: ‘*Oenothera biennis* (female) × *O. glazioviana* (male). This combination (with the male and female in this direction) is not in Stace and is a 1st v.c. record. [The combination *O. glazioviana* (f) × *O. biennis* (m) = *O. ×fallax* and is in Stace]’.
- +±84/4.1×4. **Oenothera ×britannica** (**O. glazioviana** × **O. cambrica**), a hybrid Evening Primrose Several plants in vegetated vacant ground, old railway station site, Carmarthen, SN41622007, R.D.Pryce, 2011, det. R.Murphy.

- +87/1.1. **Viscum album** (Mistletoe)(Uchelwydd). 1 clump established on ornamental *Malus* in front garden, Waterloo Terrace, Carmarthen, SN4115120466, I.K.Morgan, 2011. Probably originally planted.
- +†91/2.11. **Euphorbia peplus** (Petty Spurge)(Llaethlys Bach). On old vegetated, rock face on N side of track in shale quarry, Penlan Quarry, Bethesda, SN09061854, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +91/2.16.a. **Euphorbia amygdaloides** ssp. **amygdaloides** (Wood Spurge)(Llaethlys y Coed). Wayside, on N side of disused railway line, just W of bridge over minor road, approx. 250m NE of Disgwylfa, Tumble, SN506093, C.Cheffings, G.& T.Moss, 2011.
- +94/1.4. **Linum catharticum** (Fairy Flax)(Llin y Tylwyth Teg). Unimproved grassland, Cefn Blaenau SSSI, near Llanybydder, SN577416, S.D.S.Bosanquet, 2011. 1st record for v.c.44 part of hectad.
- *†99/1.3.lei. **Acer campestre** var. **leiocarpum** (a Field Maple)(Masarnen Fach). Millennium Coastal Park plantings, E of Burry Port, 22/453003, I.K.Morgan, 2011. 1st record of var.
- +†102/1.8. **Oxalis articulata** (Pink-sorrel)(Suran Ruddgoch). ©1 plant in compost storage clamp (for spreading on maize fields), Penlan Isaf Farm, Kidwelly, SN40220828, R.D.& K.A.Pryce, 2011. Material obtained from municipal composting facility in Neath Port Talbot.
- +103/1.4. **Geranium rotundifolium** (Round-leaved Crane's-bill)(Pig-yr-aran Grynndail). One plant in vacant gravelly area on E side of up platform, Ferryside Railway Station, SN3663010425, R.D.Pryce, 2011.
- +†103/1.11. **Geranium dissectum** (Cut-leaved Crane's-bill)(Pig-yr-aran Larplog). Riverbank, immediately W of Pont Llwni, Maesycrugiau, SN47204126, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +107/12.1. **Conopodium majus** (Pignut)(Cneuen y Ddaear). Broad-leaf woodland on bank of Teifi, Allt Goch, Cenarth, SN26134149, A.O.Chater, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +†107/25.1. **Conium maculatum** (Hemlock)(Cegiden). Abundant in disturbed ground in weedy area S of mart site adjacent to large concrete pad over sludge tank, Whitland Mart, SN19441669, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- *108/3.2×3. **Centaureum ×intermedium** (**C. erythraea** × **C. littorale**) (a hybrid centaury). Dune slack, Tywyn Burrows, SN36540532, BSBI meeting, 2011, NMW, det. A.O.Chater, G.M.Kay & J.Poland. At least one plant present with both *C. littorale* and *C. erythraea* in vicinity, in damp (winter-wet) firebreak cut through dune-slack habitat.
- 108/3.3. **Centaureum littorale** (Seaside Centaury)(Y Ganrhi Goch Arfor). Dune slack, Tywyn Burrows, SN36540532, BSBI meeting, 2011, NMW, det. A.O.Chater, G.M.Kay & J.Poland. About 40 plants in vicinity of damp (winter-wet) firebreak cut through dune-slack habitat. Also about 20 plants in dune-slack habitat south of helipad at SN36850489. First confirmed records since doubt expressed as to whether this species is present in v.c.44.
- +†110/1.1. **Nicandra physalodes** (Apple-of-Peru)(Afal Periw). ©Street weed, 2 plants, one growing with self-sown *Petunia ×hybrida* near commemorative horse-trough, Ferryside, SN36611035, R.D.& K.A.Pryce, 2011.
- *©110/9.fer. **Datura ferox** (Angels'-trumpets)(Utgyrn yr Angylion). 1 plant in compost storage clamp (for spreading on maize fields), Penlan Isaf Farm, Kidwelly, SN40230828,

- I.K.Morgan, 2011. Material obtained from municipal composting facility in Neath Port Talbot.
- +‡110/PET.axi×int. **Petunia ×hybrida (P. axillaris × P. integrifolia)** (Petunia)(Petwniâu). ©Street weed, 1 plant growing near commemorative horse-trough with self-sown *Nicandra physalodes*, Ferryside, SN36611035, R.D.& K.A.Pryce, 2011.
- *111/2.1.deca. **Convolvulus arvensis** f. **decarrhabdotus** (Field Bindweed). Growing under garden shrubs and plants in front garden, Elgin Road, Pwll, Llanelli, SN4752501026, R.D.Pryce, 2011. 1st record of form.
- *111/3.2.a.sch. **Calystegia sepium** ssp. **sepium** f. **schizoflora** (a hedge bindweed). Disused railway line, NE side of level crossing, Pontyates, SN47050827, C.Cheffings, G.& T.Moss, 2011. 1st record of form.
- +‡111/3.3. **Calystegia pulchra** (Hairy Bindweed)(Taglys Blewog). Disused railway line, between Pontyates and Ponthenri, SN40(U), C.Cheffings, G.& T.Moss, 2011.
- *‡111/IPO.tri. **Ipomea trichocarpa** (Red Morning-glory). ©1 well-grown self-sown, flowering plant, in compost storage clamp (for spreading on maize fields), Penlan Isaf Farm, Kidwelly, SN40220828, R.D.& K.A.Pryce, 2011, NMW, conf. E.J.Clement. Material obtained from municipal composting facility in Neath Port Talbot.
- +‡115/1.1. **Phacelia tanacetifolia** (Phacelia)(Ffaselia). Arable field headland, Penlan Farms, Kidwelly, SN39930763, WWBIC recording meeting, 2011, det. R.D.Pryce. Originally sown but now self-sowing along margins of barley fields. 1st record as a neophyte.
- +116/15.7. **Myosotis sylvatica** (Wood Forget-me-not)(Sgorpionllys y Coed). ‡Shingle shoal in river, Allt Goch, Cenarth, SN25914205, A.O.Chater, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +‡117/1.bon. **Verbena bonariensis** (Argentinian Vervain)(Ferfain yr Ariannin). Street weed seeding itself from the landscaped entrance to the car park, Pendine, SN236081, I.K.Morgan, 2011. 1st published record. *Nassella tenuissima* doing the same.
- +‡118/4.1.c. **Lamiastrum galeobdolon** ssp. **argentatum** (Variegated Yellow Archangel). Established by track through woodland in shale quarry, Penlan Quarry, Bethesda, SN0896718550, R.D.& K.A.Pryce, 2011.
- +‡118/5.3. **Lamium purpureum** (Red Dead-nettle)(Marddanhadlen Goch). On newly exposed shale above north east corner of working shale quarry, Penlan Quarry, Bethesda, SN08631875, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +118/6.4. **Galeopsis tetrahit** (Common Hemp-nettle)(Y Benboeth). Shale mounds with weedy growth on shale quarry floor, Penlan Quarry, Bethesda, SN08581872, R.D.& K.A.Pryce, 2011. Well drained site includes several arable weeds.
- *‡124/8.1. **Chaenorhinum originifolium** (Malling Toadflax)(Trwyn-y-llo Caint). ©Street and wall weed, at least 50 plants in gravelly forecourts and mortar of stone boundary walls, Cornish Place, Morfa, Llanelli, SS51479881, I.K.Morgan, 2011, det. G.M.Kay. Presumably escaped from cultivation, although no plants were seen in any nearby gardens.
- +‡124/12.1. **Kickxia elatine** (Sharp-leaved Fluellen)(Llyysiau-Llywelyn). 1 plant on shale mounds with weedy growth on shale quarry floor, Penlan Quarry, Bethesda, SN08581872, R.D.& K.A.Pryce, 2011. Well drained site includes several arable weeds. 1st record for v.c.44 part of hectad.

- +124/13.3×4. **Linaria × dominii** (**L. purpurea** × **L. repens**) (a hybrid toadflax). On limestone chippings in vacant development site, Delta Lakes, Machynys, Llanelli, SS50759848, R.D.Pryce, 2011. Both parents in vicinity.
- +‡124/15.1. **Erinus alpinus** (Fairy Foxglove)(Clychau'r Tylwyth Teg). About a dozen plants naturalised in stone curtilage garden wall, Pwll, Llanelli, SN4788700985, R.D.Pryce. With abundant *Campanula portenschlagiana*; wall demolished a few weeks later to make way for redevelopment of the plot; +Well naturalized on stone boundary wall, Llandeilo Road, Llandybie, SN6154115855, R.D.& K.A.Pryce, with *Cymbalaria*, *Asplenium*, etc. Both 2011.
- +124/16.6. **Veronica officinalis** (Heath Speedwell)(Rhwyddlwyn Meddygol). At woodland edge by footpath along N side of shale quarry. Penlan Quarry, Bethesda, SN08481871, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +124/16.11. **Veronica anagallis-aquatica** (Blue Water-speedwell)(Graeanllys y Dwr). At least fifty plants in desiccated, cracked mud at eastern end of newly constructed dry flood attenuation lagoon, 'Cuddy Scrape', Morfa, Llanelli, SS52549876, R.D.Pryce & R.Colley, 2011.
- +‡124/16.20. **Veronica polita** (Grey Field-speedwell)(Rhwyddlwyn-y-maes Llwyd). Pavement weed, Whitland, SN1996816487, R.D.Pryce, 2011. About six plants growing on steps up to door of Llewelyn Davies Accountants offices.
- +124/20.1.a. **Euphrasia officinalis** ssp. **pratensis** (Rostkov's Eyebright). Dry acid grassland on verge at corner of track through mature forestry plantation, Tyllwyd area, Brechfa Forest, SN48943088; +Semi-improved neutral grassland, at N end of Drove Lane, Caeau Blaen Bydernyn SSSI, near Llanybydder, SN55754386. 1st record for v.c.44 part of hectad; both BSBI meeting, 2011, det. A.O.Chater.
- +124/20.3. **Euphrasia officinalis** ssp. **anglica** (English Eyebright)(Effros Lloegr). Dry acid grassland on verges of shale-surfaced forest road, Tyllwyd area, Brechfa Forest, SN48883000, BSBI meeting, 2011, det. A.O.Chater.
- +124/20.5.b. **Euphrasia arctica** ssp. **borealis** (Arctic Eyebright)(Effros yr Arctig). Acid grassland on road verges, Rhos Pwll-y-Gawnen SSSI, SN29442989, BSBI meeting, 2011, det. A.O.Chater.
- +124/25.2.b. **Pedicularis sylvatica** ssp. **hibernica** (a lousewort). Western half of unimproved wet acid grassland, Tir Phillip, Capel Dewi, SN47881885, Llanelli Nats & WTSWW meeting, det. R.D.Pryce. 1st record of ssp. for hetad; +Damp poached rushy area of field, Bethesda Road, Tumble, SN53231162, R.D.& K.A.Pryce; +Dry acid grassland, Caeau Blaen Bydernyn SSSI, near Llanybydder, SN55854384, BSBI meeting; all 2011.
- +‡129/1.10. **Campanula poscharskyana** (Trailing Bellflower)(Clychlys Ymlusgol). Stone boundary wall, adjacent to Village Hall, Ferryside, SN36500998, R.D.& K.A.Pryce, 2011.
- +‡129/7.2. **Lobelia erinus** (Garden Lobelia)(Bidoglys yr Ardd). ©Street weed, 1 plant in flower in kerb at back-edge of pavement in centre of village by commemorative horse trough. Ferryside, SN3662210352, R.D.Pryce, 2011.
- *130/6.6.mar. **Galium verum** var. **maritimum** (a Lady's-bedstraw). Dry dune grassland, on low dry dune ridges, Tywyn Burrows, SN36320572, BSBI meeting, 2011, det. A.O.Chater. 1st record for v.c.44 part of hectad.

- +130/6.10. **Galium saxatile** (Heath Bedstraw)(Briwydd Wen). Track banks through now-disturbed old *Quercus robur* woodland in shale quarry, Penlan Quarry, Bethesda, SN08751862, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +132/1.1. **Adoxa moschatellina** (Moschatel)(Mwsglys). Woodland edge, Maesyrcrugiau Church, SN47294114, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +133/2.3. **Valeriana dioica** (Marsh Valerian)(Triaglog y Gors). By disused railway line, Between Pontyates and Ponthenri, SN40(U), C.Cheffings, G.& T.Moss, 2011.
- *134/1.1×2. **Dipsacus fullonum** × **D. sativus** (a hybrid teasel). ©6 plants growing amongst *Rubus* and other rank vegetation on grassland verge, SE of Ewe Lake, Broadway, Laugharne, SN292099, I.K.Morgan, 2011, NMW.
- *135/6.8. **Cirsium acaule** (Dwarf Thistle)(Ysgallen Ddigoes). 1 plant in grassed, heavily grazed, old, small-scale, limestone quarry workings. Brest Cwm Llwyd, Mynydd Du, SN7064119493, R.D.& K.A.Pryce, 2011, conf. D.A.Pearman (from photo). Searched for additional plants in area without success.
- +135/24.1. **Mycelis muralis** (Wall Lettuce)(Gwylaeth y Fagwyr). Occasional in masonry in architectural recycling site, Dafen, Llanelli, SN53120114, R.D.Pryce, 2011.
- ⊕135/30.4. **Filago minima** (Small Cudweed)(Edafeddog Fach). On railway line, Nant-y-ci Business Centre, SN38021891, S.D.S.Bosanquet, 2011. 1st post-1970 hectad record.
- +135/33.5. **Gnaphalium uliginosum** (Marsh Cudweed)(Edafeddog y Gors). On old vegetated, rock face on N side of track in shale quarry, Penlan Quarry, Bethesda, SN09061854, R.D.& K.A.Pryce, 2011.
- +‡135/41.2. **Aster novae-angliae** (Hairy Michaelmas-daisy)(Blodyn-Mihangel Blewog). Stand c.5m × 2m naturalized on western roadside verge, Ferryside, SN36440974, R.D.& K.A.Pryce & P.Spencer-Vellacott, 2011.
- *‡135/44.2. **Conyza sumatrensis** (Guernsey Fleabane)(Amrhydlwyd Guernsey). 3 plants growing on top of semi-ruined walls in plant nursery, Stradey Home Farm, Llanelli, SN488013, I.K.Morgan, 2011, NMW, det. R.D.Pryce. Known here for several years; +Waste ground by greenhouses, National Botanic Garden of Wales, SN52091839, T.C.G.Rich & N.De Vere, 2011. 1st published records.
- *‡135/44.flo. **Conyza floribunda** (Bilbao Fleabane). 1 plant with frequent *C. canadensis* (regrowth after mowing about 6 weeks ago) on sandy road verge and disturbed ground fronting building site. Trenal, Pembrey, SN42000175;+1 large multi-stemmed plant, c.1m tall, in full flower on rubbish tip at edge of saltmarsh, Tanylan Caravan Site, near Kidwelly, SN38040688, NMW; +About six flowering plants together with at least 20 rosettes in vacant gravelly area on E side of up platform, Ferryside Railway Station, SN3663010425, NMW. Only 1 plant with mature enough flowers to determine species; all R.D.Pryce; +About 12 plants scattered in cracks in concrete and at base of walls in hard-surfaced car parking area, immediately W of Towy Works, Coracle Way, Carmarthen, SN41291989, R.D.& K.A.Pryce, NMW; +1 medium sized plant and several small desiccated plants in architectural recycling site, Dafen, Llanelli, SN53130121, R.D.Pryce; +About 12 plants in substrate of crushed concrete and limestone aggregate in demolished factory site, Bethesda Road, Tumble, SN53541192, R.D.Pryce, NMW; +1 large plant on colliery spoil, Builders Merchant's Depot, Betws, SN64511216, R.D.Pryce, NMW. With several plants of *C. canadensis* nearby; +1 plant growing in sparsely vegetated gravelly

- ground, W side of Millenium Coastal Path Depot, North Dock, Llanelli, SS4954799953, I.K.Morgan; all 2011. 1st and subsequent published records.
- ⊗‡135/55.aus. **Anthemis austriaca** (Austrian Chamomile). Arable field headland, Penlan Farms, Kidwelly, SN39930763, WWBIC recording meeting, 2011, det. R.D.Pryce. A few plants in headland of barley field planted with sunflower, Phacelia, etc. which are now self-sowing. 1st record as a neophyte.
- +135/62.15. **Senecio vulgaris** (Groundsel)(Creulys). Several plants on shale mounds with weedy growth on shale quarry floor, Penlan Quarry, Bethesda, SN08581872, R.D.& K.A.Pryce, 2011. Well drained site includes several arable weeds. 1st record for v.c.44 part of hectad.
- +135/62.17. **Senecio sylvaticus** (Heath Groundsel)(Creulys y Rhos). 1 plant on spoil slope in Millstone Grit Quarry, Allt-y-Garn Quarry, Cernydd Carmel SAC, SN58651578, R.D.& K.A.Pryce, 2011.
- +‡135/65.1. **Delairea odorata** (German-ivy)(Creulys Dail Eiddew). Base of wall, Penlan Farms, Kidwelly, SN402073, I.K.Morgan, 2011. Surviving over considerable length at base of wall.
- +‡135/69.2. **Doronicum plantagineum** (Plantain-leaved Leopard's-bane)(Llyisiau'r-llewpard Dail Llyriad). Strong colony on roadside bank next to ruined cottage, Ty-newydd, near Kidwelly, SN401089, I.K.Morgan & R.N.Stringer, 2011. 1st v.c. record since 1974.
- +‡135/71.4. **Petasites fragrans** (Winter Heliotrope)(Alan Pêr). Roadside bank in open woodland, Ty Jack, Maesyrcugiau, SN47474136, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- ⊗‡135/79.1. **Helianthus annuus** (Sunflower)(Blodyn yr Haul). Arable field headland, Penlan Farms, Kidwelly, SN39930763, WWBIC recording meeting, 2011, det. R.D.Pryce. Margin of barley field sown with bird-seed mix including Phacelia and sunflower now self-sowing. 1st record as a neophyte.
- +‡135/GUI.abv. **Guizotia abyssinica** (Niger)(Guizotia). ©2 large self-sown flowering plants in compost storage clamp (for spreading on maize fields), Penlan Isaf Farm, Kidwelly, SN40220828, R.D.& K.A.Pryce, NMW. Material obtained from municipal composting facility in Neath Port Talbot;+©On pile of dumped limestone block-stone on the old road to Tir Morfa about 50m S of footbridge to hide near Welsh Wetlands Centre, Penclacwydd, Llanelli, SS53309826, H.V.Colls; both 2011.
- *‡135/LIA.spi. **Liatis spicata** (Gayfeather). 2 plants established on slope of sub-soil mound. backlane to Brynmawr Avenue, Ammanford, SN62851281, R.D.& K.A.Pryce, 2011. 1st v.c. & Welsh record.
- *‡147/2.1. **Lysichiton americanus** (American Skunk-cabbage)(Pidyn-y-gog Americanaidd). Established (originally planted) by edge of small pond, Llwynpiod, Trapp, SN64251908, BSBI meeting, 2011, det. R.D.Pryce. 1st published record.
- +‡147/5.2.b. **Arum italicum** ssp. **italicum** (Italian Lords-and-Ladies)(Pidyn-y-gog Eidalaid). 1 small plant escaping from garden under privet boundary hedge on N side of backlane, Whitland, SN1977516655, R.D.Pryce, 2011.
- +‡151/1.2. **Juncus tenuis** (Slender Rush)(Brwynen Fain). Shale quarry floor, area where water seeping from under quarry bench and spoil, Penlan Quarry, Bethesda, SN08591867, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.

- +151/1.7. **Juncus bufonius** (Toad Rush)(Brwynen y Llyffant Du). Shale quarry floor, area where water seeping from under quarry bench and spoil, Penlan Quarry, Bethesda, SN08591867, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +151/1.26.sub. **Juncus effusus** var. **subglomeratus** (a Soft-rush). Rushy patch in upland acid grassland, East of Carreg-yr-Ogof, SN78912150, BSBI meeting, 2011, det. J.Poland.
- +151/1.26×27. **Juncus ×kern-reichgeltii** (**J. effusus** × **J. conglomeratus**) (a hybrid rush). One clump on damp acid grassland by bank on roadside, Rhos Pwll-y-Gawnen SSSI, SN29052958, BSBI meeting, 2011, det. A.O.Chater.
- +152/2.2.a. **Trichophorum cespitosum** ssp. **germanicum** (Deergrass)(Clwbfrwynen y Mawn). Wet acid grassland, Caeau Blaen Bydernyn SSSI, near Llanybydder, SN56024381, BSBI meeting, 2011, det. A.O.Chater. *Molinia* dominated, rather tussocky grassland.
- +152/2.2.a×b. **Trichophorum cespitosum** nothosp. **foersteri** (**T. cespitosum** ssp. **cespitosum** × **T. cespitosum** ssp. **germanicum**) (Hybrid Deergrass). Flush at head of valley, E of Carreg-yr-Ogof, SN78672137, BSBI meeting, 2011, det. A.O.Chater. With abundant *Eriophorum angustifolium* and locally abundant *Sphagnum*.
- +152/7.2. **Schoenoplectus tabernaemontani** (Grey Club-rush)(Llafrwynen Arfor). Edge of oxbow lake, Dinefwr Park, Llandeilo, SN60822215, R.D.& K.A.Pryce, 2011.
- +‡152/11.2. **Cyperus eragrostis** (Pale Galinale)(Ysnoden-Fair Welw). ©Two large self-sown plants in compost storage clamp (for spreading on maize fields), Penlan Isaf Farm, Kidwelly, SN40220828, R.D.& K.A.Pryce, 2011. Material obtained from municipal composting facility in Neath Port Talbot.
- +152/13.1. **Rhynchospora alba** (White Beak-sedge)(Corsfrwynen Wen). 10s of tufts on the edge of a flush, Cefn Blaenau SSSI, near Llanybydder, SN57734164, S.D.S.Bosanquet, 2011. 1st record for v.c.44 part of hectad.
- +152/16.39. **Carex laevigata** (Smooth-stalked Sedge)(Hesgen Lefn). Few plants in woodland in shale quarry by Eastern Cleddau River, Penlan Quarry, Bethesda, SN08401870, R.D.& K.A.Pryce, 2011. Also at SN852 1865. 1st record for v.c.44 part of hectad.
- +152/16.46.b. **Carex demissa** (Common Yellow-sedge). Shale quarry, Penlan Quarry, Bethesda, SN08591867, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +152/16.47. **Carex pallescens** (Pale Sedge)(Hesgen Welw). 1 large and 1 small plant in damp acid grassland, Pant-y-Llyn Farm, Blaenycod, SN3506725916, R.D.& K.A.Pryce, 2011.
- +152/3.4. **Eleocharis multicaulis** (Many-stalked Spike-rush)(Ysbigfrwynen Gadeiriog). Frequent at edge of flush, Cefn Blaenau SSSI, near Llanybydder, SN577416, S.D.S.Bosanquet, 2011.
- +‡153/5.1. **Pseudosasa japonica** (Arrow Bamboo)(Bambw'r Saethau). Stand c.5×10m on trackside at edge of woodland in shale quarry, Penlan Quarry, Bethesda, SN0896718550, R.D.& K.A.Pryce, 2011.
- *‡153/9.tri. **Nassella tenuissima** (Argentine Needle-grass). Self-sown outside walled garden at woodland edge, Glynhir, SN64051504, BSBI meeting, NMW, det T.B.Ryves, 2002. +Street weed, Pendine, SN236081, I.K.Morgan, 2011. Seeding itself from the landscaped entrance to the car park; *Verbena bonariensis* doing the same. 1st and second records of self-sown plants outside gardens.

- +153/12.3. **Schedonorus giganteus** (Giant Fescue)(Peiswellt Mawr). Open woodland of old Pedunculate Oak and occasional Ash in shale quarry, Penlan Quarry, Bethesda, SN08441869, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +153/24.1. **Glyceria maxima** (Reed Sweet-grass)(Melyswellt y Gamlas). Locally dominant in flood-plain swamp. Maesyrcrugiau, SN47514120, R.D.& K.A.Pryce, 2011.
- *‡153/28.2. **Avena strigosa** (Bristle Oat)(Blewgeirchen). 1 plant self-sown at edge of arable field headland, Penlan Farms, Kidwelly, SN39880809, WWBIC recording meeting, 2011, det. R.D.Pryce.
- +‡153/28.3. **Avena fatua** (Wild-oat)(Ceirchen Wyllt). A few tall plants in headland and also in barley crop, Penlan Farms, Kidwelly, SN39950799, WWBIC recording meeting, 2011, det. R.D.Pryce.
- +‡153/39.2. **Agrostis gigantea** (Black Bent)(Maeswellt Mawr). Arable field headland at corner of barley field planted with sunflower, Phacelia, etc. which are now self-sowing, Penlan Farms, Kidwelly, SN40020772, WWBIC recording meeting, 2011, det. R.D.Pryce.
- +‡153/46.2. **Polyopogon viridis** (Water Bent)(Barfwellt y Dwr). 2 plants as weeds in disturbed ground near glasshouses, National Botanic Garden of Wales, SN521183; +1 strong plant in urban lane, Railway Place, Seaside, Llanelli, SS501997; both I.K.Morgan, 2011. 1st records as neophytes.
- +153/64.1. **Phragmites australis** (Common Reed)(Corsen). Very extensive dry reedbed, planted to deal with effluent from chalet-park, Allt Goch, Cenarth, SN25834155, A.O.Chater, R.D.& K.A.Pryce, 2011. 1st record for v.c.44 part of hectad.
- +‡153/66.1. **Cynodon dactylon** (Bermuda-grass)(Glaswellt Bermwda). ©Street weed on pavement of landscaped corner of car park on right of commemorative horse-trough, Ferryside, SN36621034, I.K.Morgan, 2011. 3rd v.c. record.
- +‡153/71.san. **Digitaria sanguinalis** (Hairy Finger-grass)(Byswellt Blewog). ©Frequent in compost storage clamp (for spreading on maize fields), Penlan Isaf Farm, Kidwelly, SN40240829, R.D.& K.A.Pryce, 2011. Material obtained from municipal composting facility in Neath Port Talbot.
- +‡153/PAN.mil. **Panicum miliaceum** (Common Millet)(Miled). ©1 plant growing on headland of barley field, Penlan Farms, Kidwelly, SN39850770, WWBIC recording meeting, 2011, det. R.D.Pryce.
- *‡158/25.1.b. **Nectaroscordum siculum** ssp. **bulgaricum** (Honey Garlic)(Garleg y Mêl). 2 or 3 plants planted at woodland edge by pond, Bancyffynnon, Whitland, SN21521465, WWBIC recording meeting, 2011, det. R.D.Pryce.
- *‡158/31.2. **Leucojum vernum** (Spring Snowflake)(Eiríaidd y Gwanwyn). 1 plant amongst other garden escapes/throw-outs in disturbed, dry, dune grassland, W of Burry Port Harbour, SN44350031, Llanelli Nats, 2011, det. R.D.Pryce.
- +158/33.5. **Narcissus pseudonarcissus** (Daffodil)(Cenhinen-Bedr Wyllt).‡Locally abundant, naturalized in woodland on riverbank of Afon Teifi flood plain, Pont Llwni, Maesyrcrugiau, SN47334128, R.D.& K.A.Pryce, 2011.
- +‡158/33.5.c. **Narcissus hispanicus** (Spanish Daffodil)(Cenhinen-Bedr Sbaen). Several clumps established from plantings on roadside bank in open woodland, Ty Jack, Maesyrcrugiau, SN47474136, R.D.& K.A.Pryce, 2011.

- +162/18.1×4. **Dactylorhiza ×grandis (D. fuchsii × D.)** (a hybrid Marsh-orchid). At least 2 plants in neutral grassland field, Aber Marlais, SN69482948, Llanelli Naturalists & WTSWW meeting, 2011.
- +162/18.3.a. **Dactylorhiza incarnata** ssp. **incarnata** (an Early Marsh-orchid). Several plants in damp, acid grassland field, Pant-y-Llyn Farm, Blaenycloed, SN3479225850, R.D.& K.A.Pryce; +5 flowering spikes in rushy, quite dry area favoured by grazing cattle, near boundary fence, Ffrwd Fen SSSI, Pembrey, SN41800234, Llanelli Naturalists, det. R.D.Pryce. 3 further spikes within 20m; +Locally frequent in neutral grassland field, Aber Marlais, SN69482948 plus 2 further spikes at SN69482951, Llanelli Naturalists & WTSWW meeting; all 2011.

PEMBROKE (v.c.45) (comm. S.B.Evans)

- +4/1.4×5. **Equisetum ×litorale (E. fluviatile × E. arvense)** (Shore Horsetail)(Marchrawnyn y Glenydd). Open fen at the rear of the shingle beach, Abereiddy, SM7979531377, S.& A.E.Evans, 2011.
- +31/5.3. **Fumaria bastardii** (Tall Ramping-fumitory)(Mwg-y-ddaear Grymus). On 1 to 1.2 metre high new hedgebanks, Glan-y-mor field, Dinas Cross, SN02363863, S.Evans, 2011. Hedgebanks created from soil and sub-soil in the field during May 2011. The field had been arable some 10 years ago.
- ⊕31/5.5.b. **Fumaria muralis** ssp. **boroei** (Common Ramping-fumitory)(Mwg-y-ddaear Amrywiol). Barley stubble, Show ploughing match field, Furzy Mount, Folly, Camrose, SM924210, S.& A.E.Evans; +Disturbed ground, N side of modified A40 by new Canaston Bridge, SN06521524, S.Evans; both 2011.
- +‡42/8.2. **Carpobrotus edulis** (Hottentot-fig)(Ffigysen yr Hotentot). Corner of wall, Castle Way, Dale, SM8082105874, S.B.Evans & J.Warr, 2011. There used to be a lot more *Carpobrotus* in the village but because it was so invasive in the gardens most has now been removed.
- ⊕46/10.7.a. **Sagina apetala** s.s. (Annual Pearlwort)(Corwlyddyn Unflwydd). Bare stony ground at the corner of a building, Abercastle, SM8527633631, S.Evans; ⊕Bare ground at the road edge, E of Little Newcastle, SM982290, S.& A.E.Evans; both 2011.
- +46/20.9×1. **Silene ×hampeana (S. latifolia × S. dioica)** (Pink Champion). Bracken/bramble coarse grass margin to the winter pony grazed area within the Iron Age fort ramparts, Old Iron Age fort, Dale Point, SM8221105209, S.B.& A.E.Evans, J.Warr & F.Gomersall, 2011.
- *47/1.2. **Persicaria campanulata** (Lesser Knotweed)(Y Ganwraidd Fach). ©Heap of garden soil and topsoil that had been dumped at the far end of the normal farm midden, Tregammon, Moylegrove, SN1032542312, S.B.Evans & J.Atkinson, 2011.
- *‡47/1.7. **Persicaria amplexicaulis** (Red Bistort)(Y Ganwraidd Goch). ©Heap of garden soil and topsoil that had been dumped at the far end of the normal farm midden, Tregammon, Moylegrove, SN1032542312, S.B.Evans & J.Atkinson, 2011.
- +47/1.12. **Persicaria lapathifolia** (Pale Persicaria)(Canwraidd y Dom). Disturbed ground on topsoiled verges, W side of A40, near Spittal Tunnel, SM958227, S.Evans, 2011.

- +47/8.13.b. **Rumex crispus** ssp. **littoreus** (Curled Dock)(Tafolen Grech). Seawall of Quay car park, seaward of the slipway in an area flooded at Spring Tides, Lower Town, Fishguard, SM96263717, S.Evans, 2011.
- +47/8.13×19. **Rumex** ×**pratensis** (**R. crispus** × **R. obtusifolius**) (Meadow Dock). Fallow field on an organic farm, Pigscoot Farm, Herbrandston, SM873078, S.B.& A.E.Evans & J.Steer, 2011.
- ⊕57/1.5. **Viola reichenbachiana** (Early Dog-violet)(Fioled y Coed). Edge of footpath on wooded bank of Afon Teifi, downstream of Llechryd Bridge, Castell Malgwyn, SN2161943593, H.Williams, 2010.
- +61/2.9×11. **Salix** ×**holosericea** (**S. viminalis** × **S. cinerea**) (Silky-leaved Osier)(Helygen Dail Sidan). Long established clump on a wet sheltered sea-cliff slope, Castlebeach Bay, Dale, SM8182304680, G.Kaye, A.O.Chater & S.B.Evans, 2011.
- ⊕†62/1.7. **Sisymbrium officinale** (Hedge Mustard)(Roced y Berth). Roadside, Beulah Hill, Little Newcastle, SM981286, S.& A.E.Evans, 2011.
- +†62/34.3.b. **Brassica rapa** ssp. **campestris** (Wild Turnip)(Erfinen Wyllt). Disturbed ground on topsoiled verges, W side of A40, near Spittal Tunnel, SM958227, S.Evans, 2011.
- +†62/38.1. **Hirschfeldia incana** (Hoary Mustard)(Mwstard Llwyd). Disturbed ground on topsoiled verges, W side of A40, near Spittal Tunnel, SM958227, S.Evans, 2011.
- +73/5.12. **Sedum acre** (Biting Stonecrop)(Briweg Boeth). ©On roof and front gutter, E of the Globe Public House, Main Street, Fishguard, SM9591237034, S.& A.E.Evans, 2011.
- *75/3.1×3. **Spiraea** ×**pseudosalicifolia** (**S. salicifolia** × **S. douglasii**) (Confused Bridewort) (Ffug Erwain-dail-helyg). On S side of road, Waun-fach Hendre, East of Dowrog Common, St David's, SM78052690, S.& A.E.Evans, 2011.
- ⊕75/15.1. **Agrimonia eupatoria** (Agrimony)(Llysiau'r Dryw). Sea-cliff grassland on narrow headland, N of Porth Duggan, Aber Bach, SM88283531, S.Evans, 2011.
- +†77/15.9. **Lathyrus latifolius** (Broad-leaved Everlasting-pea)(Ytbysen Fythol Lydanddail). Several showy flowering plants well naturalised and scrambling along the front of the S facing roadside hedgebank, opposite Myrtlehill Farm, Dreenhill, SM92611444, S.Evans, 2011.
- +94/2.1. **Radiola linoides** (Allseed)(Llin Gorhadog). Winter wet pinch point in grazed wet heath, just E of track, Keeston Moor, Keeston, SM8944218839, S.& A.E.Evans, 2011. Associate of *Cicendia filiformis*.
- +107/34.2. **Carum verticillatum** (Whorled Caraway)(Carwy Droellennog). Marshy grassland, Llanwnwr, Strumble Head, SM89144020, S.& A.Coker, 2011.
- +110/8.1. **Solanum nigrum** (Black Nightshade)(Codwarth Du). Disturbed ground on topsoiled verges, N side of modified A40 by new Canaston Bridge, SN06521524, S.Evans, 2011.
- ⊕†118/5.3. **Lamium purpureum** (Red Dead-nettle)(Marddanhadlen Goch). Old back garden, Greenacre Mill, Velindre, SN1007039021, S.B.Evans & J.Atkinson, 2011.
- ⊕118/11.2. **Teucrium chamaedrys** (Wall Germander)(Chwerwyls y Mur). †A 6×4m patch found on a steep sandy limestone sea-cliff slope, 3m above zig-zag path, W end of South Esplanade, Tenby, SN1319500109, O.Leyshon, 2011. 1st recent record. There is a specimen from Tenby in the BM herbarium collected by Miss H. Moseley in 1835.

- +124/7.1. **Antirrhinum majus** (Snapdragon)(Trwyn y Llo). ©Small clump of white flowered plants on mortared low limestone wall, opposite Flemish Chimney, St Florence, SN0824901099, S.& A.E.Evans, 2011.
- +‡124/16.20. **Veronica polita** (Grey Field-speedwell)(Rhwyddlwyn-y-maes Llwyd). Weeds in flower beds within walled garden, Picton Castle, SN008133, S.& A.E.Evans, 2011.
- ⊕‡124/16.21. **Veronica persica** (Common Field-speedwell)(Rhwyddlwyn y Maes). Sloping bank below new hedge planted after road re-alignment c. 10 years ago, Greenacre's eastern field, Velindre, SN10253906, S.B.Evans & J.Atkinson, 2011.
- +‡129/1.10. **Campanula poscharskyana** (Trailing Bellflower)(Clychlys Ymlusgol). Flowering on roadside wall, Old Flemish Chimney Cottage, St Florence, SN0826901154, S.& A.E.Evans, 2011.
- +130/6.7. **Galium album** (Hedge Bedstraw)(Briwydd y Clawdd). ‡Grassy bank, below Narbeth Castle on the SE side of Castle street, SN10971447, S.B. A.E. C.D. & A.J.Evans, 2011.
- +134/3.1. **Knautia arvensis** (Field Scabious)(Clafrllys y Maes). Chapelyard, Ebenezer Baptist Chapel, Cold Inn, SN10430578, S.& A.Evans, 2011. Although much of the chapelyard was cut short there were many earth mound graves which were uncut and other uncut patches and ant hills to give a good list of plants such as *Knautia arvensis*. *Briza media* was locally abundant throughout.
- +135/27.6.b. **Pilosella aurantiaca** ssp. **carpathicola** (Fox-and-cubs)(Clust-y-llygoden Euraid). Mown grassland, St Florence Churchyard, SN082011, S.& A.E.Evans, 2011.
- +‡151/1.2. **Juncus tenuis** (Slender Rush)(Brwynen Fain). Short path from tarmac to pond, below and S of Teifi Nature Reserve Centre building, Teifi NR, SN1883545058, S.B. A.E. H.H. & E.Evans, 2011.
- ⊗151/1.8. **Juncus ranarius** (Frog Rush)(Brwynen y Broga). Wet, brackish, unmade track, behind Pickleridge Lagoons, Dale, SM81010724, S.B.& A.E.Evans & J.Warr, 2011, conf. G. Kaye *et al.* 1st recent record. With *Catabrosa aquatica* and *Apium graveolens* nearby.
- +152/16.43. **Carex extensa** (Long-bracted Sedge)(Hesgen-yr-heli Bractau Hir). Wet ledges at bottom of high sea-cliff, NE of Pen Brush, Strumble Head, SM8829039975, S.Evans, 2011. With *Schoenus nigricans*.
- +‡153/60.1. **Triticum aestivum** (Bread Wheat)(Gwenith). ©Gutter of roof extension, Tafarn Zinc Public House, Rosebush, SN0754329481, S.B. A.E. & C.Evans; ⊕©Near bird feeding stations in garden of old cornmill dating back to 1600, Greenacre's back garden, Velindre, SN1007039021, S.B.Evans & J.Atkinson; both 2011.
- +‡153/PAN.mil. **Panicum miliaceum** (Common Millet)(Miled). ©Roadside edge where a very low earth and stone bank had recently been constructed adjacent to a hollow in a very exposed sea-cliff, Ceibwr Bay, Moylegrove, SN1080145745, S.B. A.E. C.D. & A.J.Evans, 2011. The presence of *Panicum miliaceum* was almost certainly explained by the scattering of bird seed which was observed later in the year.

CARDIGAN, v.c.46 (comm. A.O.Chater)

- +5/2.1. **Botrychium lunaria** (Moonwort)(Lloer-redynen). 1 plant in pasture, 1.2km SW of Blaenplwyf chapel, SN56607467, A.O.Chater, 2011.
- *#28/9.2. **Anemone apennina** (Blue Anemone)(Blodyn-y-gwynt Glas). Under beeches, grounds of Ty Glyn, Ciliau Aeron, SN49755986, A.O.Chater, 2011, NMW. 1st record and 1st Welsh record as a neophyte.
- *#30/7.cor×mic. **Macleaya ×kewensis** (**M. cordata** × **M. microcarpa**) (Hybrid Plume-poppy)(Pabi Pluog Croesryw). Base of wooded slope, grounds of Ty Glyn, Ciliau Aeron, SN49745985, A.O.Chater, 2011. Spread vegetatively under wall from inside walled garden.
- +#45/2.1. **Claytonia perfoliata** (Springbeauty)(Porpin y Gwanwyn). ©1 plant under newly planted hedge, NHS car park, Plas Hendre, Aberystwyth, SN60098235, S.P.Chambers, 2011, NMW.
- +46/3.1. **Honckenya peploides** (Sea Sandwort)(Tywodlys Arfor). Sandy beach, W end of Tresaith bay, SN276515, A.O.Chater, 2011. Small colony; recorded here by J.H.Salter in 1924 but not seen since.
- +55/1.3. **Drosera intermedia** (Oblong-leaved Sundew)(Gwlithlys Hirddail). Several plants by faint path at edge of formerly cut-over bog, S end of Cors Fochno, SN625899, A.O.Chater, 2011.
- +62/12.3. **Rorippa islandica** (Northern Yellow-cress)(Berwr Melyn Gogleddol). 1 plant on road verge, By Talgarreg school, SN425510; +1 plant on road verge, 450m SSE of Devil's Bridge, SN74337663; both A.O.Chater, 2011.
- +62/12.4. **Rorippa palustris** (Marsh Yellow-cress)(Berwr Melyn y Gors). Several plants in waste ground by stream, Tresaith, SN280513, A.O.Chater, 2011.
- *62/15.2. **Turritis glabra** (Tower Mustard)(Berwr y Cerrig). #1 plant on dry bank by houses, Cefn Melindwr, Capel bangor, SN65878017, S.P.Chambers, 2011. Self-seeded from adjacent garden where last grown in 2007.
- +†62/28.1. **Thlaspi arvense** (Field Penny-cress)(Codywasg y Maes). Margin of oat field, Glangors, Cors Caron, SN69206240, R.Maskew & A.O.Chater, 2011.
- +69/4.3. **Lysimachia vulgaris** (Yellow Loosestrife)(Trewyn). Willow carr, S side of Pwll Du, Cors Foschno, SN629601; +Poor fen, S end of Cors Fochno, SN627898; both A.O.Chater, 2011.
- +75/21.12×15. **Rosa ×scabriuscula** (**R. canina** (m) × **R. tomentosa** (f)) (a hybrid rose). Disused railway embankment, Gwaun Garthenor, SN633558, R.Maskew & A.O.Chater, 2011. *R. tomentosa* as female parent.
- *75/8.217. **Rubus infestus** (Red-prickled Bramble). Roadside hedge, 200m SSE of Capel y Berth, Ty'nyreithin, SN663633, D.E.Allen & A.O.Chater, 2001, BM, det. D.E.Allen.
- +77/18.1. **Medicago lupulina** (Black Medick)(Maglys Du). 1 plant on gravelly track margin, W side of Llyn Brianne, SN789486, S.P.Chambers, 2011.
- +#80/1.1. **Gunnera tinctoria** (Giant-rhubarb)(Rheonllys Mawr). Alltlywd Home Farm, Llanrhystud, SN528685, F.Newbery, 2011. Self-seeded from planted specimens.
- +81/1.3. **Lythrum portula** (Water-purslane)(Troed y Gywen). Damp pasture, 1.2km SW of Blaenplwyf chapel, SN565745, A.O.Chater, 2011.

- +84/1.6×9. **Epilobium** × **schmidtianum** (**E. obscurum** × **E. palustre**) (a hybrid willowherb). Poor fen, S end of Cors Fochno, SN629901, A.O.Chater, 2011.
- +107/17.1. **Crithmum maritimum** (Rock Samphire)(Corn-carw'r Môr). 2 small patches on shingle beach, Cei Bach, SN40855970; +1 plant at back of shingle beach, 500m S of mouth of Afon Wyre, SN525693; both A.O.Chater, 2011.
- +118/1.1. **Betonica officinalis** (Betony)(Cribau San Ffraid). Stream gully, Nant Troed-y-rhiw, SN832766, S.P.Chambers, 2011.
- +118/23.1×3. **Mentha** × **gracilis** (**M. arvensis** × **M. spicata**) (Bushy Mint)(Mintys Culddail). †Weed in sunflower crop, 350m SW of Monachty, SN501617, A.O.Chater, 2011.
- +124/1.7. **Verbascum thapsus** (Great Mullein)(Pannog Felen). 5 first-year plants on gravelly road verge, Llyn Brianne dam, SN790484, S.P.Chambers, 2011.
- *‡124/SUT.cor. **Sutera cordata** (Bacopa). ©1 plant as pavement weed, self-seeded from flowerbox, Great Darkgate Street, Aberystwyth, SN58398173, S.P.Chambers, 2011. Pale blue cultivar.
- +130/6.7. **Galium album** (Hedge Bedstraw)(Briwydd y Clawdd). 1 plant on recently constructed roadside embankment, NE corner of Llandysul bypass bridge, SN407403, A.O.Chater, R.A.Jones & J.Turner, 2011.
- +142/1.15. **Potamogeton berchtoldii** (Small Pondweed)(Dyfrllys Bach). Pond in overgrown pasture, Crematorium grounds, Cwm Cynfelin, SN604832, A.O.Chater & L.R.Gander, 2011.
- +‡148/2.4. **Lemna minuta** (Least Duckweed)(Llinad Bach). Pond in pasture, 100m E of Coastguard Station, Craig yr Adar, New Quay, SN37856000, A.O.Chater & J.P.Woodman, 2011.
- +152/2.2.a×b. **Trichophorum cespitosum** nothosp. **foersteri** (**T. cespitosum** ssp. **cespitosum** × **T. cespitosum** ssp. **germanicum**) (Hybrid Deergrass). Upland flush, E of Llyn Llygad Rheidol, SN79448755, A.O.Chater, 2011.
- +152/13.1. **Rhynchospora alba** (White Beak-sedge)(Corsfrwynen Wen). Formerly cut-over area of peat bog, S end of Cors Fochno, SN623899, A.O.Chater, 2011.
- +153/50.3. **Bromus racemosus** (Smooth Brome)(Pawrwellt Llyfn). ©1 plant in disturbed soil by car park, NHS car park, Plas Hendre, Aberystwyth, SN60098235, S.P.Chambers, 2011, NMW.

MONTGOMERY, v.c.47 (comm. Dr A.K. Thorne)

- +15/3.1. **Asplenium officinarum** (Rustyback)(Duegredynen Gefngoch). Ruins, Llangynog, SJ02(N), Monts. Field Society, 2008, det. A.K.Thorne; +Good stand on stone wall by lane, Cwm Twrch, Foel, SH9813, A.K.& W.I.J.Thorne, 2011. With **Asplenium ruta-muraria**.
- +43/3.2. **Atriplex prostrata** (Spear-leaved Orache)(Llygwyn Tryfal). Roadside, near Penybontfawr, SJ02(R), A.P.Daly, 2009; +Roadside, next to Coed y Deri, Llanfair Caereinion, SJ0906, A.K.& W.I.J.Thorne, 2011.
- ⊗43/3.10. **Atriplex portulacoides** (Sea-purslane)(Llygwyn Llwydwyn). In saltmarsh, Dovey Junction SSSI (Dyfi SSSI), Llyn Draenog, Morfa Dyfi, SN69439873, H.V.Prosser &

- H.L.Wallace, 2009. Countryside Council for Wales, 2012, in-house data. Introduced to the Dyfi by E.H.Chater in the 1930s. 1st recent record.
- +57/1.5. **Viola reichenbachiana** (Early Dog-violet)(Fioled y Coed). Mixed habitats, Breiddens east and Belan Bank, SJ31(C), A.K.Thorne, 2007; □ Mixed habitat, Llanfechain, SJ12(V); □ Pastoral habitat, near Llanfechain, SJ12(W); both A.Hazlehurst & S.Swindells, 2009; □ NW of Meifod, SJ11(H), A.Hazlehurst & S.Swindells; □ Dolforwyn Wood WS, SO1595, Monts. Field Society; both 2010; □ Near Meifod, SJ11(R), □ SE of Meifod, SJ11(Q); both R.Meade, 2011.
- +57/1.11. **Viola lutea** (Mountain Pansy)(Trilliw y Mynydd). Dry bank in pasture, Twmpath Melyn Common near Fawnog Fawr, SH9501, S.P.Chambers, 2007. Also in acid grassland NW of Fawnog Fawr.
- +‡62/31.2. **Coronopus didymus** (Lesser Swine-cress)(Olbrain Bach). Floodplain, Llwynbrain, SO09(L), A.K.& W.I.J.Thorne, 2008.
- 69/4.3. **Lysimachia vulgaris** (Yellow Loosestrife)(Trewyn). Near & around pool, Water Garden, Gregynog, SO0997, Monts. Flora Group, 2011, det. A.K.Thorne.
- +75/17.1. **Sanguisorba officinalis** (Great Burnet)(Bwrned Mawr). Small stand on riverbank adjacent to arable land, River Camlad, Hem, Forden, SO23789935; +2 separate small stands on north riverbank, River Camlad, SE of Churchstoke, SO2892; both A.K.& W.I.J.Thorne, 2011.
- +‡103/1.1. **Geranium endressii** (French Crane's-bill)(Pig-yr-aran Ffrainc). Road verge, B4396 near Penybontfawr, SJ072241, A.P.Daly, 2009. With *Geranium pratense*; ⊗ Good sized patch, S of Llangynog, SJ259050, A.P.Daly, 2010. With *Arrhenatherum elatius*, *Taraxacum* agg., etc. 1st recent records.
- †107/10.1. **Smyrniolum olusatrum** (Alexanders)(Dulys). Broad-leaved woodland, Coed Pendugwm WS, SJ103143, T.Stretton, 2010.
- +‡124/11.1. **Cymbalaria muralis** (Ivy-leaved Toadflax)(Trwyn-y-llo Dail Eiddew). Melinbyrhedyn and surrounds, SN89(E), T.Brown, 2007.
- +134/1.1. **Dipsacus fullonum** (Wild Teasel)(Cribau'r-pannwr Gwyllt). Melinbyrhedyn and surrounds, SN89(E), T.Brown, 2007.
- 135/2.1. **Carlina vulgaris** (Carline Thistle)(Ysgallen Siarl). Good stand in hill pasture, Llys Hill, SJ178218, A.K.& W.I.J.Thorne, 2009.
- *135/11.deb. **Centaurea debeauxii** (Chalk Knapweed). Limestone grassland, Llanymynech Hill, SJ2621, S.Clarkson, 2010. WFS meeting.
- ‡135/28.7.arg. **Hieracium argillaceum** (Southern Hawkweed). Woodland bank on roadside, by B4391, NW of Llanfyllin, SJ125211; □ Rocky openish slope down to forest track, Craig Breidden, Breidden Hill, SJ298149; both A.K.Thorne, 2011, det. D.J.McCosh. 1st recent records.
- ⊗135/28.8. **Hieracium cinderella** (*Long-bracted Hawkweed*). Woodland bank on roadside, by B4391, NW of Llanfyllin, SJ125211, A.K.Thorne, 2011, det. D.J.McCosh. 1st recent record.
- 135/28.10.165. **Hieracium lasiophyllum** (Stiff-haired Hawkweed). Many plants on rock faces and ledges, Moel y Golfaf, SJ28861237 to SJ29011246, A.K.& W.I.J.Thorne, 2011, det. D.J.McCosh. Refind of 1901 record.

- +135/81.1. **Bidens cernua** (Nodding Bur-marigold)(Graban Gogwydd). Llansantffraid, SJ22 (F), A.K.Thorne, A. Hazlehurst & S.Swindells; +W of Llanymynech, SJ22(K), A.Hazlehurst & S.Swindells; both 2008.
- +‡138/4.1. **Elodea canadensis** (Canadian Waterweed)(Ffugalaw Canada). Road verge, City, near Sarn, SO2289, P.Dyer, 2010.
- +‡138/4.2. **Elodea nuttallii** (Nuttall's Waterweed)(Ffugalaw Nuttall). N of Pont Robert, SJ11 (C), A.Hazlehurst & S.Swindells, 2010.
- ⊖152/5.1. **Scirpus sylvaticus** (Wood Club-rush)(Clwbfrwynen Bengron). 2 stands around S end of pool, Water Garden, Gregynog, SO091976, M.Lawley, 2011.
- ⊖152/16.5. **Carex otrubae** (False Fox-sedge)(Hesgen Dywysennog Goesadeiniog). Wet track, Llanfechain, SJ198212, A.Hazlehurst & S.Swindells, 2009. With *Hypericum tetrapterum* & *Glyceria declinata*.
- +152/16.23. **Carex hirta** (Hairy Sedge)(Hesgen Flewog). Pennant Melangell, SJ0226, Monts. Field Society, 2011, det. A.K.Thorne.
- +152/16.29. **Carex vesicaria** (Bladder-sedge)(Hesgen Chwysigennaidd). Floodplain, Llwynbrain, SO09(L), A.K. & W.I.J.Thorne, 2009; +Head of lake, in small area of periodically flooded wet woodland, Lake Vyrnwy, SH9624, R.A.Jones & P.Spencer-Vellacott, 2011, Countryside Council for Wales in-house data. About 200 mature plants, largely as vegetative tussocks, growing on dead *Salix cinerea* and *Alnus glutinosa* with *Carex paniculata*, *C. rostrata* & *C. vesicaria*.
- +152/16.44×46. **Carex ×fulva** (*C. hostiana* × *C. viridula*) (a hybrid sedge). SW of Llandinam Windfarm, SO013804, A.K.Thorne, 2004; +In runnel over brown mosses, Bryncoch Farm, Llanerfyl, SJ013081, D.Reed, 2007. With *Carex lepidocarpa* & *C. hostiana*.
- +152/16.51. **Carex caryophyllea** (Spring-sedge)(Hesgen Gynnar). Rough pasture, Jericho Hill, SJ12(Q), A.K.Thorne, A. Hazlehurst & S.Swindells, 2007; +Hill pasture, Llys Hill, SJ177220, A.K. & W.I.J.Thorne, 2009; +Gregynog, SO0897, A.K.Thorne & Montgomeryshire Flora Group, 2011.
- +152/16.55. **Carex pilulifera** (Pill Sedge)(Hesgen Bengron). Mixed habitat adjoining floodplain, near Meifod, SJ11(S), R.Meade; +Mixed broad-leaved wood, Gaer Fawr woods, SJ21(G), Monts. Flora Group, det. A.K.Thorne; both 2009
- +152/9.1. **Eleogiton fluitans** (Floating Club-rush)(Clwbfrwynen Arnfoi). Small quantity at SW side of pool, Water Garden, Gregynog, SO091976, M.Lawley, 2011, det. A.K.Thorne.
- +153/12.1. **Schedonurus pratensis** (Meadow Fescue)(Peiswellt). Mire, near The Glyn WS, SN9385, A.K.Thorne, 2007. Largely *Molinia caerulea* - *Potentilla erecta* mire.
- +153/12.2. **Schedonurus arundinaceus** (Tall Fescue)(Peiswellt Tal). Llandyssil (Upper Bryntalch), SO19(U), Montgomeryshire Field Society, 2011, det. A.K.Thorne.
- ⊖‡153/28.3. **Avena fatua** (Wild-oat)(Ceirchen Wyllt). Grassland, Lower Lymore pool and surrounds, Lymore, SO2396, A.K. & W.I.J.Thorne, 2011.
- +153/39.8. **Agrostis vinealis** (Brown Bent)(Maeswellt-y-cwn y Mynydd). Mire, Cors Farchwel SSSI, SJ090154, A.K. & W.I.J.Thorne; +Hafren Forest, SN88(N), Montgomeryshire Flora Group, det. A.K.Thorne; +Upland pasture and moorland, Sweet Lamb, Llangurig, SN8485, A.K. & W.I.J.Thorne; all 2010; +SE of Glaslyn, SN8393; +Forest track and lane, Esgairgeiliog, SH7506; both A.K. & W.I.J.Thorne, 2011.

+162/18.1. **Dactylorhiza fuchsii** (Common Spotted-orchid)(Tegeirian Brych). Rhyd-yr-Onnen WS, SN8686, T.& J.Stretton, 2009.

MERIONETH, v.c.48 (comm. S.Stille & R.Gritten)

- +2/1.1. **Selaginella selaginoides** (Lesser Clubmoss)(Cnwp-fwsogl Bach). Maesycaerau, SH63433594, S.E.Stille & J.Langton; Moel y Geifr, SH635345; +Flush, Pont y Gain, SH750328; both S.D.S.Bosanquet; all 2011.
- +‡20A/CRY.jap. **Cryptomeria japonica** (Japanese Red-cedar)(Cochwydden Japan). Single plant, Pantperthog, SH752044, S.E.Stille, 2011.
- +23/1.1. **Taxus baccata** (Yew)(Ywen). †Churchyard, Ynys, SH53(X); +‡2 trees in farmyard, Dol Gain N, SH73(F); both Merioneth Nats, 2011.
- +40/3.1. **Carpinus betulus** (Hornbeam)(Oestrwydden). †Old hedge, Llandrillo, SJ03I, S.E.Stille, 2011.
- +‡45/2.2. **Claytonia sibirica** (Pink Purslane)(Porpin Pinc). Lakeside scrub, Llanycil, SH915349; +‡Near R. Dee. Ty'n-y-cefn, SJ04(L); both S.E.Stille, 2011.
- +61/2.16. **Salix repens** (Creeping Willow)(Corhelygen). Disused railway, SH73(Z), S.E.Stille & J.A.Green, 2011.
- +75/13.1. **Geum rivale** (Water Avens)(Mapgoll Glan y Dwr). Cwm Croesor, SH64(M), Merioneth Nats, 2011.
- *‡75/13.3. **Geum macrophyllum** (Large-leaved Avens)(Mapgoll Fawr). ©Several plants on road verge, Pantperthog, SH75220447, A.O.Chater, 2011, hb. AOC.
- +75/15.1. **Agrimonia eupatoria** (Agrimony)(Llysiâu'r Dryw). Sygun Copper Mine, SH64(E), S.E.Stille, 2011.
- ⊗75/20.1. **Aphanes arvensis** (Parsley-piert)(Troed y Dryw). Sea embankment, Fegla Fawr Embankment, SH6214, R.Gritten, 2011. 1st recent record.
- +75/21.5. **Rosa spinosissima** (Burnet Rose)(Rhosyn Bwrned). Several plants around this locality, S of Dol Gain, SH728298, Merioneth Nats, 2011, hb SES.
- +75/22.6. **Prunus avium** (Wild Cherry)(Coeden Geirios Du). Ty Du, SH83(S), S.E.Stille, 2011, hb SES.
- +75/27.1. **Malus sylvestris** s.s. (Crab Apple)(Coeden Afalau Surion). Craig yr Ogof, SH92 (C), S.E.Stille & J.T.Hughes, 2011.
- +‡75/32.35. **Cotoneaster rehderi** (Bullate Cotoneaster)(Cotoneaster Deilgrych Rehder). ©Churchyard, Llanycil, SH93(C), S.E.Stille, 2011, hb SES, det. J.Fryer.
- +84/6.1×2. **Circaea ×intermedia** (*C. lutetiana* × *C. alpina*) (Upland Enchanter's-nightshade) (Llysiâu-Steffan yr Ucheldir). Laneside verge, Cors yr Hendre, SJ03(P), S.E.Stille, 2011, hb SES.
- ⊗85/1.1. **Cornus sanguinea** (Dogwood)(Cwyrosyn). †Hedgerow, Berth-ddu, SJ06424476, S.E.Stille, 2011. 1st recent record.
- +‡103/1.14. **Geranium pyrenaicum** (Hedgerow Crane's-bill)(Pig-yr-aran y Gwrych). Ty'n-y-cefn, SJ04(L), S.E.Stille, 2011.
- +‡111/3.3. **Calystegia pulchra** (Hairy Bindweed)(Taglys Blewog). Carpark, Bala [south], SH925358, S.E.Stille, 2011.

- +118/10.4. **Scutellaria minor** (Lesser Skullcap)(Cycyllog Bach). Perhaps 50 plants in an area 2×8m, Moel yr Henfaes, SJ0636839807, S.E.Stille & D.Smith, 2011, hb SES.
- +118/18.4. **Clinopodium vulgare** (Wild Basil)(Brenhinllys Gwylt). Hedgebank, Cors yr Hendre, SJ0437; +Hedgebank, Cae Mawr, SJ04(L); both S.E.Stille, 2011. hb SES.
- +‡124/16.23. **Veronica filiformis** (Slender Speedwell)(Rhwyddlwyn Main). Ynys, SH53(X), Merioneth Nats, 2011.
- +124/20.1.a. **Euphrasia officinalis** ssp. **pratensis** (Rostkov's Eyebright). Llandderfel, Hafod Uchel, SH93(W), S.E.Stille, 2011, hb. SES, det. A.J.Silverside.
- +124/20.5.b. **Euphrasia arctica** ssp. **borealis** (Arctic Eyebright)(Effros yr Arctig). Cwm Nantcol, SH62(I), Merioneth Nats; +Meadow, S of Shotton Woods, SH93(W), S.E.Stille; both 2011, hb. SES, det. A.J.Silverside.
- ⊗124/20.9×18. **Euphrasia confusa** × **E. scottica** (a hybrid eyebright). Craignant, SH84(L), S.E.Stille, 2011, hb. SES, det. A.J.Silverside. 1st recent record.
- +124/20.19. **Euphrasia scottica** (Scottish Eyebright)(Effros Eiddil y Fawnog). In *Sphagnum*, Bwlch y Groes, SH914228; +Cwm Sian Llwyd, SJ03(B); both S.E.Stille, 2011, hb. SES, det. A.J.Silverside.
- +‡125/1.2. **Lathraea clandestina** (Purple Toothwort)(Deintlys Porffor). Ynys, SH590355, Merioneth Nats, 2011. 1st hectad record since 1993.
- +129/3.1. **Wahlenbergia hederacea** (Ivy-leaved Bellflower)(Clychlys Dail Eiddew). Llyn Barfog, SN64539863, Merioneth Nats; +Bwlch y Groes, SH92(B); both S.E.Stille, 2011.
- +‡147/2.1. **Lysichiton americanus** (American Skunk-cabbage)(Pidyn-y-gog Americanaidd). Above salt marsh, Ynys, SH590355, Merioneth Nats, 2011. Persistent over almost 20 years, presumably at this site.
- +151/2.2. **Luzula pilosa** (Hairy Wood-rush)(Coedfrwynen Flewog). Coed Gordderw, SH8333, A.N.& J.E.Graham, 2000; Frequent at Ffridd, Trawscoed, SH842325, A.N.Graham, 2011. 2nd hectad record.
- +152/16.23. **Carex hirta** (Hairy Sedge)(Hesgen Flewog). Roadside, woods and stream bed, Craig yr Ogof, SH92(C), S.E.Stille & J.T.Hughes, 2011.
- *152/16.67×69. **Carex** ×**decolorans** (**C. nigra** × **C. bigelowii**) (a hybrid sedge). Moorland, Cadair Bronwen, SJ07193501, S.E.Stille & D.Smith, 2011, hb. SES, det. M.J.Porter.
- +153/14.1. **Vulpia fasciculata** (Dune Fescue)(Peisgwellt y Twyni). Fairbourne to Morfa Mawddach Embankment, SH61, R.Gritten, 2011.
- +153/18.12. **Poa nemoralis** (Wood Meadow-grass)(Gweunwellt y Coed). Dol Gain N, SH73 (F), Merioneth Nats, 2011.
- +‡153/39.2. **Agrostis gigantea** (Black Bent)(Maeswellt Mawr). Damp old meadow, Cwm Nantcol, SH62(I), Merioneth Nats, 2011, hb. SES.
- +153/47.1. **Alopecurus pratensis** (Meadow Foxtail)(Cynffonwellt y Maes). Ynys, SH53(X), Merioneth Nats, 2011.
- +153/64.1. **Phragmites australis** (Common Reed)(Corsen). Ty'n-y-cefn, SJ04(L), S.E.Stille, 2011.

CAERNARFON, v.c.49 (comm. Mrs W. McCarthy)

- +5/2.1. **Botrychium lunaria** (Moonwort)(Lloer-redynen). 1 plant in small species rich meadow at community farm, Tregarth, SH5967, J.Harold. With dozens of *Platanthera chlorantha*; +8 plants in ungrazed species rich pasture, on and around ant-hills, Abergwyngregyn, SH6470, I.& L.Fraser. With hundreds of *Ophioglossum vulgatum*; both 2011.
- +11/1.1×2. **Polypodium ×mantoniae** (**P. vulgare** × **P. interjectum**) (a hybrid polypody). Bank of lane, Crymlyn, Abergwyngregyn, SH6371, J.Driver, 2003.
- +16/4.1. **Gymnocarpium dryopteris** (Oak Fern)(Rhedynen Dridarn). Entrance to tiny cave near quarry, Llanfairfechan, SH6975, J.Driver, 2011. With *Phegopteris connectilis*.
- +28/13.10. **Ranunculus auricomus** (Goldilocks Buttercup)(Blodyn-y-menyn Peneuraid). Shady woodland, Llanfairfechan, SH6974, W.McCarthy, 2011. 1st record for v.c.49 portion of hectad.
- +28/13.11. **Ranunculus sceleratus** (Celery-leaved Buttercup)(Crafanc yr Eryr). Tiny muddy pool by new road, Maesgeirchen, SH5870, W.McCarthy, 2011.
- ⊗#30/1.1. **Papaver pseudoorientale** (Oriental Poppy)(Llygady Bwgan). Pontllyfni, SH4352, D.P.Earl, 2006, 1st record since 1933 & 1st as a neophyte.
- +43/3.6. **Atriplex littoralis** (Grass-leaved Orache)(Llygwyn Arfor). Roadside of A4085, Betws Garmon, SH5456, J.Driver, 2011. 3 plants on a Snowdonia road, 10km from the coast.
- +#46/18.1. **Lychnis coronaria** (Rose Campion)(Lluglys Gwridog). Rough grassland below footpath, Great Orme, Llandudno, SH7782, W.McCarthy, 2011.
- +#47/5.3. **Fallopia baldschuanica** (Russian-vine)(Clymog Rwsia). Sea cliffs below gardens, Great Orme, Llandudno, SH7583, J.Driver, 2011.
- *#53/2.0lb×thu. **Malva ×clementii** (**M. olbia** × **M. thuringiaca**) (Garden Tree-mallow) (Hocyswydden yr Ardd). Waste ground near the sea, Conwy, SH7877, W.McCarthy, 2011. 1st published record.
- *#57/1.11×12×alt. **Viola ×wittrockiana** (**V. lutea** × **V. tricolor** × **V. altaica**) (Garden Pansy) (Trilliw'r Gerddi). Waste ground near the sea, Conwy, SH7877, W.McCarthy, 2011. 1st published record.
- +61/1.3.a. **Populus nigra** ssp. **betulifolia** (Black-poplar)(Poplysen Ddu). Near ruined farmstead, Abergwyngregyn, SH6771, J.Driver, 2011. Status uncertain, probably planted.
- +61/2.10×11. **Salix ×reichardtii** (**S. caprea** × **S. cinerea**) (a hybrid willow). 1 tree in grassland near ruined quarry buildings at disused slate quarry, Talysarn, SH4953, W.McCarthy, 2011.
- +#62/11.3. **Barbarea intermedia** (Medium-flowered Winter-cress)(Berwr-y-Gaeaf Canolig). Wall top in lane, Llanfairfechan, SH6974, W.McCarthy, 2011.
- ⊕62/27.1. **Teesdalia nudicaulis** (Shepherd's Cress)(Berwr y Bugail). Rock face near quarry, Llanfairfechan, SH6975, J.Driver, 2011. 1st record for hectad since at least 1969.
- ⊕69/6.2.a. **Anagallis arvensis** ssp. **arvensis** f. **carnea** (Scarlet Pimpernel)(Llyisiau'r Cryman). Sand dunes, near Fort Belan, Dinas Dinlle, SH4360; ⊕Rocks at top of beach, Morfa Bychan, SH5536; ⊕Stony bare ground above Haulfre gardens, Great Orme, SH7782; all W.McCarthy, 2011. 1st records since 1933.

- +‡71/HYD.mac. **Hydrangea macrophylla** (Hydrangea)(Trilliw ar Ddeg). Sandy bank above the sea, Llanbedrog, SH3229, W.McCarthy, 2011.
- +‡74/5.8×9. **Saxifraga ×urbium** (**S. umbrosa** × **S. spathularis**) (Londonpride)(Balchder Llundain). Spreading over paths & up walls in cemetery, Penamser, Porthmadog, SH5539, W.McCarthy & M.Stead, 2011.
- +74/5.15. **Saxifraga granulata** (Meadow Saxifrage)(Tormaen y Gweunydd). Steep sandy headland above the sea, altitude c. 120m. Penmaenbach, Conwy, SH7478, J.Driver, 2011. 1st found in 1980s but only reported in 2011.
- +75/9.13×14. **Potentilla ×suberecta** (**P. erecta** × **P. anglica**) (a hybrid cinquefoil). Bank of track in field, Llannor, SH3638, W.McCarthy, 2011.
- *‡75/22.1. **Prunus persica** (Peach)(Coeden Eirin Gwlanog). Wet rock face by A5, Bethesda, SH6462, J.Driver, 2011. 1 small tree with ripe fruit on 31/7/2011, first noted 20 years ago but fruited for the first time this year. 1st Welsh record.
- +‡75/22.7. **Prunus cerasus** (Dwarf Cherry)(Coeden Geirios Coch). Large stand of suckering bushes over heathland by path to the sea, Porth Ceiriad, SH3025, W.McCarthy & M.Stead, 2011.
- ⊕75/28.16. **Sorbus rupicola** (Rock Whitebeam)(Cerddinen y Graig). Steep cliffs above the sea, Llanfairfechan, SH6975, J.Driver, 2011. c.40 trees counted. 1st record for hectad since 1956.
- +79/2.4. **Myriophyllum alterniflorum** (Alternate Water-milfoil)(Myrdd-dail Blodau Bob yn Ail). Muddy pool by new road, Maesgeirchen, SH5870, W.McCarthy, 2011.
- +‡103/1.17. **Geranium macrorrhizum** (Rock crane's-bill)(Pig-yr-aran Wreiddfawr). Grass bank above road, Great Orme, SH7782, W.McCarthy, 2011.
- +‡116/2.4. **Echium pininana** (Giant Viper's-bugloss)(Gwiberlys Mawr). Sandy bank above the sea, Llanbedrog, SH3229, W.McCarthy, 2011.
- +‡118/23.3×4. **Mentha ×villosa** (**M. spicata** × **M. suaveolens**) (Apple-mint)(Mintys Lletgrwn). Sandy bank above the sea, Llanbedrog, SH3229, W.McCarthy, 2011.
- ⊕‡122/1.3. **Buddleja globosa** (Orange-ball-tree)(Coeden-fêl Peli Oren). Riverbank below bridge, Bodwrdda, Aberdaron, SH1827, W.McCarthy, 2011. Appearing naturalized, but possibly established where thrown out. 1st record as a neophyte.
- +‡124/4.2. **Mimulus guttatus** (Monkeyflower)(Blodyn Mwnci). Gravelly riverbank, Aberdaron, SH1827, W.McCarthy, 2011.
- ⊕‡124/8.2. **Chaenorhinum minus** (Small Toadflax)(Trwyn-y-llo Bach). Waste ground near railway line, Llandudno Junction, SH7977, W.McCarthy, 2011. 1st record for hectad since at least 1969.
- +128/2.6. **Utricularia minor** (Lesser Bladderwort)(Chwysigenddail Bach). Acidic bog at Ystumllyn marsh, Criccieth, SH5238, W.McCarthy, 2011.
- +‡131/3.orb×mic. **Symphoricarpos ×chenaultii** (**S. microphyllus** × **S. orbiculatus**) (Hybrid Coralberry)(Llusen Gwrel Groesryw). Planted on bank by railway line, Llandudno, SH7781, W.McCarthy, 2011. 2nd record.
- ⊕‡135/11.3. **Centaurea cyanus** (Cornflower)(Glas yr Yd). ©Bank by railway line, Llandudno, SH7781, W.McCarthy, 2011. 1st record for hectad since at least 1969. Casual self-sown plant.

- +‡135/66.com×lax. **Brachyglottis ×jubar** (**B. laxifolia** × **B. compacta**) (Shrub Ragwort) (Llwyn-creulys ‘Sunshine’). Sandy bank above the sea, Llanbedrog, SH3229, W.McCarthy, 2011. 2nd record.
- +‡135/69.1. **Doronicum pardalianches** (Leopard’s-bane)(Llyisiau’r Llewpart). Roadside bank, Llanrhos, Llandudno, SH7879, W.McCarthy, 2011. Growing as established where apparently thrown out.
- *148/1.1. **Spirodela polyrhiza** (Greater Duckweed)(Llinad Mawr).‡Pond, near Y Ffor, SH3739, W.McCarthy & M.Stead, 2011. Probably introduced with pond plants.
- +151/1.6. **Juncus foliosus** (Leafy Rush)(Brwynen Ddeiliog). Ditch in water meadow, Ynys Enlli, SH1121, W.McCarthy, 2011.
- +152/9.1. **Eleogiton fluitans** (Floating Club-rush)(Clwbfrwynen Arnofiol). Edge of pond, Nefyn, SH3140, M.Stead, 2011.
- +153/16.2. **Puccinellia distans** (Reflexed Saltmarsh-grass). Saltmarsh above the shore, Morfa Bychan, SH5436, W.McCarthy, 2011.
- ⊗‡153/17.3. **Briza maxima** (Greater Quaking-grass)(Crydwellt Mawr). Pavement edge near footpath, Nefyn, SH3040, W.McCarthy & M.Stead, 2011. 1st published record as a neophyte.
- +‡158/12.2. **Lilium pyrenaicum** (Pyrenean Lily)(Lili Ddrewllyd). Roadside bank, Dolwyddelan, SH7251, W.McCarthy & M.Stead, 2011.
- +158/20.2×3. **Hyacinthoides ×massartiana** (**H. hispanica** × **H. non-scripta**), Hybrid bluebell Pavement edge, Tremadoc, SH5640, W.McCarthy & M.Stead, 2011.
- +162/3.4. **Epipactis helleborine** (Broad-leaved Helleborine)(Y Galdrist Lydanddail). 2 plants in seed in grassland at disused slate quarry, Talysarn, SH4953, W.McCarthy, 2011.
- *162/3.dun. **Epipactis dunensis** (Dune Helleborine). Rockery at Treborth botanic garden, Bangor, SH5671, N.H.Brown, 2011, conf. J.Poland.
- *162/18.1×4. **Dactylorhiza ×grandis** (**D. fuchsii** × **D.**) (a hybrid Marsh-orchid). Grassland near industrial estate, Bangor, SH5469, N.H.Brown, 2011. Probably in excess of 70 plants in a hybrid swarm.

DENBIGH v.c.50 (comm. D.Williams)

- *‡20/1.nor. **Abies nordmanniana** (Caucasian Fir)(Ffynidwydden y Cawcasws). Casgan Dittw, SJ2352, J.Shanklin, 2011.
- ⊗‡28/9.hup×vit. **Anemone ×hybrida** (**A. hupehensis** × **A. vitifolia**) (Japanese Anemone) (Blodyn-y-gwynt Japaneaidd). On rough ground, Chirk, SJ30103964(E), S.Swindells, 2011. Possibly garden throw-outs? 1st record as a neophyte and 1st for v.c. since 1943.
- ⊗58/1.1. **Tamarix gallica** (Tamarisk)(Grugbren). On grassy slope above Prom, Colwyn Bay Prom, SH8678, D.Williams & J.Rose, 2011. 1st recent record.
- ⊗‡61/2.2×3. **Salix ×fragilis** (**S. alba** × **S. euxina**) (Hybrid Crack-willow)(Helygen Frau Groesryw). Bonc-yr-Hafod, SJ34(D), Denbs Group, 2011. 1st record for v.c. since 1876.
- *61/2.5. **Salix purpurea** (Purple Willow)(Helygen Gochlas). Llanfihangel G.M. Conwy Biodiversity Picnic Area, Llanfihangel Glyn Myfyr, SH94(Z), D.Williams, 2011.

- *‡62/18.1. **Alyssum alyssoides** (Small Alison)(Alyswm Bach). Occasional along sea wall, Rhos-on-Sea, SH8480, D.Williams & J.Rose, 2011.
- *‡62/34.3.c. **Brassica rapa** ssp. **oleifera** (Turnip-rape)(Meipen Rêp). Mixed in with *Rapistrum rugosum* along roadside. Saron, SJ021609, D.Williams & J.A.Green, 2011. 1st record of this ssp.
- *‡71/HYD.mac. **Hydrangea macrophylla** (Hydrangea)(Trilliw ar Ddeg). Naturalised, Colwyn Bay Prom, SH8678, D.Williams & J.Rose, 2011.
- *‡73/5.4. **Sedum spectabile** (Butterfly Stonecrop)(Briweg Iâr Fach yr Haf). On rough ground, Chirk, SJ30103964(E), S.Swindells, 2011. Possibly garden throw-outs?
- +75/21.12×16. **Rosa** × **rothschildii** (**R. canina** (m) × **R. sherardii** (f)) (a hybrid rose). Hedgerow on N side of steep road. Tai-nant, SJ265473(T), Denbs Group, 2011.
- *‡77/19.14.sat. **Trifolium pratense** var. **sativum** (Cultivated Red Clover)(Meillionen Goch). Road verge, Wynnstay, SJ3042, D.Williams, 2011.
- *‡135/41.4×5. **Aster** × **salignus** (**A. novi-belgii** × **A. lanceolatus**) (Common Michaelmas-daisy) (Blodyn Mihangel). Below sea wall, Rhos-on-Sea, SH8480, D.Williams & J.Rose; +Very large stand by edge of river. Llanfihangel Glyn Myfyr, SH991494(Z), D.Williams; +On slope above prom, Colwyn Bay Prom, SH8678, D.Williams & J.Rose; all 2011. 1st records.
- *‡135/79.1×dec. **Helianthus** × **multiflorus** (**H. annuus** × **H. decapetalus**) (Thin-leaved Sunflower)(Blodyn-yr-haul Dail Tenau). In now abandoned estate grounds, Llangernyw, SH870671(T), D.Williams & J.A.Green, 2011. Possibly planted originally.
- *152/11.1. **Cyperus longus** (Galingale)(Ysnoden Fair). Large stand half way along ditch, bordering mown area. Brookfield Drive Biodiversity Site, SJ826797, D.Williams, 2011. 1st recorded J.Harold in 2009.
- *153/40.1. **Calamagrostis epigejos** (Wood Small-reed)(Corsen Fach y Coed). Abundant along N facing bank above road & prom from Eirias turn-off E to next turn-off, Colwyn Bay Prom, SH86027882, D.Williams & J.Rose; +Large stand, Wrexham Industrial Site, SJ34(Z), BSBI meeting. Needs confirmation; both 2011.
- *158/14.1×2. **Polygonatum** × **hybridum** (**P. multiflorum** × **P. odoratum**) (Garden Solomon's-seal)(Llysiâu-Solomon yr Ardd). Patch 0.5m sq. under hawthorn/sycamore hedge & verge, Chirk, SJ3054939742(E), S.Swindells, 2011.
- *162/3.dun. **Epipactis dunensis** (Dune Helleborine). Over 2000 plants in *Salix/Betula* carr, Alyn Waters Country Park, SJ324551, S.M.Povey, 2011, det. A.J.Richards.

Images opposite: Plants self sown on compost storage clamp (for spreading on maize fields), Penlan Isaf Farm, Kidwelly, Carmarthenshire (v.c.44), (see Welsh Plant Records for Carmarthenshire, pages 36 to 47). Photos: Richard Pryce

8: *Cyperus eragrostis* (Pale Galinale)(Ysnoden-Fair Welw), 27 October 2011 (see page 46).

9: *Melilotus sulcatus* (Furrowed Melilot)(Yr Wydro Rychog), 16 October 2011. 1st recent Welsh record. (see page 40).

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Image 10 (above): North Road Cemetery, Whitland, Carmarthenshire (v.c.44), where there was once thriving *Anacamptis morio* and *Orchis mascula* populations. Photo: Richard Pryce, May 2012 (see editorial, page 4).

Image 11: A draft example of a page from the forthcoming 101 Rare Plants of Wales, submitted by Lauren Cranmer (see article, page 14).

Image 12: 'Bird-seed headland' at Penlan Farms, Kidwelly, Carmarthenshire (v.c.44), 23 August 2011. Photo: Richard Pryce (see Welsh Plant Records for Carmarthenshire, pages 36 to 47).

Images on back cover:

13: *Poa bulbosa* (Bulbous Meadow-Grass) at The Knap, Glamorgan (v.c.41), 18 May 2010. Photo: Julian Woodman (see article, page 15).

14: *Carex punctata* expedition at Watwick Bay, Pembrokeshire (v.c.45), Welsh AGM, 12th August 2011. Photo: Richard Pryce (see articles about the 2011 AGM, pages 7 & 18).



Field Gentian

Cwynylls y maes

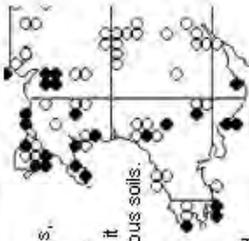
Gentiana campestris

Welsh conservation status: Endangered



Description: A small, generally biennial herbaceous plant. The beautiful purple, or occasionally white or pale blue, flowers appear from July to October. This species can be distinguished from relatives by its unequal calyx lobes surrounding the petals.

The Field Gentian was only recently added to the UK's Biodiversity Action Plan in 2007, having undergone a large national decline even before 1930. These historical losses were mostly due to agricultural improvement and loss of its suitable habitat.



In lowlands, this plant grows in sand dunes, lowland pastures and on grassy heaths, whereas in the uplands it occurs on richer slopes and grasslands. Within its habitats it is able to grow on both acidic and calcareous soils.

Field Gentian has remained relatively widespread throughout Scotland, but most lowland British populations have been lost. In Wales it has largely retreated to coastal regions, typically sand dunes, pastures and some limestone rocks, and is now uncommon on inland sites.

Threats and Conservation

Although historical losses were primarily through agricultural improvement, more recently it has been attributed to neglect of lowland pastures, and over-grazing in uplands. In addition to reinstating traditional pasture management and decreasing grazing levels, plans to link good populations with new semi-natural pastures should aid its reproduction and spread.

Reference: Jones, P. (2007) Dunes and Grasslands. *Field Guide*, (2007) <http://www.rspb.org.uk>



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