





Front Cover Photo: *Fumaria purpurea* (Purple Ramping-fumitory) at Gileston (ST0166) on the Glamorgan coast, 5th May. **Image 1 (above)** : habitat of *F.purpurea* at Gileston. Photos: Paul Green (See article, page 13).

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Editors: *Richard D. Pryce*, Trevethin, School Road, Pwll, Llanelli, Carmarthenshire, SA15 4AL PryceEco@aol.com

Sally Whyman (sally.whyman@museumwales.ac.uk) and *Katherine Slade* (katherine.slade@museumwales.ac.uk), Department of Natural Sciences, Amgueddfa Cymru-National Museum Wales, Cathays Park, Cardiff, CF10 3NP.

Items for inclusion in the next Welsh Bulletin should be sent to R. Pryce by **1st December 2014**.

Back issues over one year old are uploaded to the website. www.watsonia.org.uk/html/welsh_bulletin.html. Most back issues are still available on request @ £2 per issue, please contact Sally Whyman or Katherine Slade. Cheques are payable to BSBI Wales. Future issues are available to BSBI members living outside of Wales by sending £2 in advance.

Editorial

RICHARD PRYCE, *Trevethin, School Road, Pwll, Llanelli, Carmarthenshire,
SA15 4AL PryceEco@aol.com*

With contributions from IAN MORGAN

It's road verge cutting time of year again and council financial cutbacks in Carmarthenshire (and, no doubt, in other parts of Wales) have apparently spawned many complaints of grass being left uncut. There always appears to be an outspoken lobby of complaining voices but it would be interesting to know exactly how many people actually prefer to see wild flowers rather than the brown, unsightly mowings left to rot by the contractors.

Our County Biodiversity Officer urgently sought our assistance in providing detailed species lists for several of the particularly contentious verges as evidence of their biodiversity value. Despite being currently in Scotland at the time, we were able to abstract the relevant information from the database on the laptop we had with us. Quite apart from the Bee Orchids which grace one roundabout and the hundreds of Southern Marsh-orchids which grow on many verges and which incidentally the mowers recognise as 'wild flowers' so are instructed to leave uncut, the verges support a great variety of species of great value in maintaining populations of pollinating insects.

Local authorities elsewhere have taken on a more relaxed cutting regime to both reduce costs and to benefit biodiversity, subject, of course, to safety and other considerations. Longer grass, and the range of flowers contained in such areas, provide nectar sources for many butterflies, moths and bumblebees, all of which have declined in recent years.

Apart from the destruction of the plants before they have a chance to set seed, too frequent mowing flies in the face of the recently published Welsh Government Action Plan for Pollinators, the stated aims of which are *'to reduce, and reverse, the decline in wild and managed pollinator populations. Pollinators are an essential part of our environment. Honeybees are the main managed pollinator of crops...whilst wild pollinators include bumblebees and butterflies [and] are also important pollinators for crops like fruit, oil seed rape, clovers, which help to improve pastures for livestock grazing and wild flowers. They contribute to the diversity of plant species, habitats and wildlife. This provides food, makes Wales a better place for people to enjoy and visit and contributes to our economy.'*

The increased numbers of beneficial and other insects also provide sustenance for many declining birds, particularly in an urban or urban-edge context.

This message might be reinforced if more people were urged to lobby their local councillors to speak out for a more relaxed mowing regime - as well, in many cases, to educate the less informed and less sympathetic councillors themselves who may appear unwilling to consider embracing modified practices which enhance biodiversity.

Due to matters beyond our control this issue of the Bulletin is being published later than usual. Much of this issue is taken up by Welsh Plant Records although we also include a couple of short articles - we're always grateful to receive contributions. We hope you will enjoy reading it.

Reference

Welsh Government (2013) The Action Plan for Pollinators in Wales. Available at: <http://wales.gov.uk/topics/environmentcountryside/consmanagement/conservationbiodiversity/action-plan-for-pollinators/?lang=en>

Minutes of the 2013 BSBI Wales Annual General Meeting

The 51st AGM of BSBI Wales, held at The Bulkeley Hotel, Beaumaris, Anglesey on Friday 14th June 2013 at 9:30am.

1. Welcome

The Chair, Delyth Williams, addressed all assembled, firstly in Welsh and then in English, to The Bulkeley Hotel. She welcomed not only the members from Wales but also those from the west, over the water, and those from the east, over the border.

There were 29 members present, resident in Wales and eligible to vote, including the Chair, Secretary and Treasurer.

2. Apologies for Absence

Steve Chambers, Liz Dean, Natasha De Vere, Paul Green, Kath Slade, Sue Spencer, Kate Thorne, Sally Whyman, Ray Woods

3. Minutes of 2012 AGM

Minutes of the 50th Annual General Meeting held at Bryn Howel Hotel, Trefor, Llangollen on Thursday 21st June 2012 were printed in Welsh Bulletin No.92, pp. 6-8.

After Margaret Perring pointed out that the reference to "Bwlch Arms" for the 2013 AGM on page 7 should read "Bulkeley Hotel", the meeting agreed that the minutes were a true record and were signed by the Chair.

4. Matters Arising

There were no matters arising.

5. Chairman's Statement

Delyth Williams thanked the officers, the Committee members and those who have organised meetings for all their hard work during the year. She then made special mention of Paul Green who has stepped in as Welsh Officer to cover Polly Spencer-Vellacott's maternity leave but is in hospital following surgery this week. Best wishes were sent to Paul and a get-well card circulated for signing.

Delyth also thanked all those who volunteer to lead field meetings and went on to thank Ian and Pippa Bonner for their excellent organisation of both this AGM and the national AGM immediately preceding it. Sarah Stille who is stepping-down from Treasurer at this AGM was then thanked for her committed work. Delyth then reported that John Crellin is now working with Mike Porter as joint Breconshire VCR and that Goronwy Wynne will deliver the key lecture this evening (it had been planned for last year's AGM but illness had prevented Goronwy from attending).

Delyth concluded by congratulating Trevor Evans and Marjorie Wainwright on each being awarded the honour of *Recorder Emeritus* by the BSBI for their long and excellent service as VCRs for Monmouthshire and Montgomeryshire respectively.

6. Hon. Secretary's Report

Richard Pryce echoed Delyth's thanks and also thanked her, Ian and Pippa and all those involved in the organisation of this Welsh AGM. He thanked Sarah for her work as both Treasurer and Meetings Secretary, and drew attention to the eight

further meetings in this year's calendar and said that Sarah's Merioneth recording meeting at Caerdeon had been very successful in assisting with the ongoing recording of the county's flora.

He commended the Welsh Bulletin to the members present and reminded them that it is also available to non-Welsh residents at £2 per copy, from Kath Slade or Sally Whyman at AC-NMW. The most recent issue was only delivered a few days ago, having been produced at a difficult time due to Museum upheavals. He drew attention to an error in *Welsh Plant Records* where Trevor Evans' name had appeared instead of Elsa Wood and Stephanie Tyler. He also appealed for contributions to future issues, which is produced twice per year and articles for the next issue (January 2014) would be required by November 2013.

Richard then spoke about the Welsh Officer post and again conveyed our best wishes to Paul Green and thanked Andy Jones for offering to carry out species monitoring and complete TPP forms for species including *Antennaria dioica*, *Trollius europaeus* and *Asplenium viride* in Paul's absence. He also extended a welcome-back to Polly when she returns from maternity leave. He went on to inform the meeting that Trevor Dines of Plantlife had used VCR data to complete an inventory of sites in Wales where Section 42 plant species occur, and thanked both Trevor and the VCRs for undertaking this task.

Richard again thanked Ian Bonner for his continued involvement in Welsh Committee matters despite the additional pressure of carrying out his duties as BSBI President. IRB responded, saying that it was a team effort for field meetings, etc.

Finally Richard reminded the meeting that those attending the evening meal would be presented with free wine, courtesy of Cdr John Topp's legacy which he specifically designated for this.

7. Hon. Treasurer's Report

The Treasurer presented the accounts for 2012 which are reproduced on page 8.

2012 Accounts 1 January 2012 to 31 December 2012

<i>Receipts</i>	<i>£</i>	<i>Payments</i>	<i>£</i>
WB Subs	128.00	Printing WB #89	249.90
AGM	587.75	Printing WB #89	70.27
WB Costs from BSBI	506.90	AW Print WB #90	371.00
John Topp drinks	224.80	Postage WB #90	135.90
Sale of cards and books	135.00	WB expenses	7.00
		Hire of Cttee room	50.00
		AGM costs [incl. payments to hotel of money rec'd in error]	297.75
		John Topp drinks	224.80
Totals	1,582.45		1,406.62
Receipts less payments	175.83		
B/F from 31/12/2011	672.01		
Balance at bank	847.84		

There were no questions and the accounts were adopted unanimously.

8. BSBI Welsh Officer's Report

Due to Polly's maternity leave and Paul's illness, there was no report although letters from Paul to the VCRs had been circulated in the previous few weeks outlining his intentions for species-monitoring, Mapmate support, etc.

9. Election of Officers and Committee Members

Delyth Williams as Chairman and Julian Woodman as Vice Chairman have completed only three years of their four year terms, so they continue in post. Richard Pryce said that at last year's AGM he had agreed to only one further year as Secretary but agreed to stand for another year on the understanding that a replacement was found as a matter of urgency.

Sarah Stille is standing down as Treasurer but agreed to continue as Meetings Secretary.

Liz Dean has been nominated to take over the Treasurer's post from Sarah Stille and agreed to take on this role.

Mike Porter wished to stand down as a member of the committee and is replaced by John Crellin but will deputize for John if he cannot attend. John was proposed

by Delyth Williams, seconded by Mike and approved by those present at the meeting.

The following members retire from the Committee in 2013 under the four-year rule and have agreed to stand for re-election: Arthur Chater, Liz Dean, Stephen Evans, Andy Jones, Sue Spencer, Sarah Stille, Kate Thorne and Delyth Williams. Their re-election was proposed by Ian Bonner, seconded by Sarah Stille and approved by those present.

Peter Jones was nominated to re-join as a committee member, was proposed by Ian Bonner, seconded by Mike Porter and approved by those present at the meeting. Richard Pryce then asked for any further nominations from the floor but none were forthcoming.

The Committee now comprises:

Chairman:	Delyth Williams
Vice Chairman:	Julian Woodman
Secretary:	Richard Pryce
Treasurer:	Liz Dean
Bulletin Editors:	Richard Pryce (coopted: Katherine Slade, Sally Whyman)
Meetings Secretary:	Sarah Stille
Minutes:	Kath Pryce
Members:	Ian Bonner, Steve Chambers, Arthur Chater, John Crellin, Natasha De Vere, Liz Dean, Trevor Dines, Stephen Evans, Andy Jones, Peter Jones, Sue Spencer, Kate Thorne, Stephanie Tyler, Elsa Wood, Julian Woodman and Ray Woods
BSBI Welsh Officer:	Polly Spencer-Vellacott
CCW Observer:	Paul Day.
Plantlife Representative:	Trevor Dines

9. Any Other Business

The date and venue for the 2014 Welsh AGM has not yet been decided but is likely to be in either Monmouthshire or Glamorgan. Details will appear on the website as soon as a decision is made. (It was noted that the National AGM will be at Dunkeld, Perthshire, on 4th - 7th June 2014).

The meeting closed at 10.20am.

Calendar of Field Meetings 2014

Full details and procedure for booking are also available in the BSBI Year Book 2014 and the BSBI Welsh Bulletin no. 93, January 2014.

Saturday 19th to Saturday 26th July: Glynhir recording week, Carmarthenshire, v.c.44. Richard & Kath Pryce.

Friday 25th to Sunday 27th July: *Rubus* training. Betws y Coed, v.c.48/49. Dave Earl.

Saturday 2nd August: Kenfig Burrows, Glamorgan, v.c.41. Andy Byfield.

Sunday 3rd August: Aberporth, Cardiganshire, v.c.46. Steve Chambers.

Tuesday - Friday 5-8th August: Plas Caerdeon, Merioneth Residential, v.c.48. Sarah Stille.

Saturday 9th August: Conway Mountain, Caernarvonshire, v.c.49. Wendy McCarthy.

Friday 22nd August: *Hammarbya* hunt & general recording, Elan Valley, Radnorshire, v.c.43. Liz Dean & Paul Green.

Saturday 6th September: Duckweed training, Gwent Levels, v.c.41. Paul Green.

Sunday 21st September: *Atriplex* training, Newport, Monmouthshire, v.c.35. Paul Green.

Sagina maritima (Sea Pearlwort) along the A55 on Anglesey

PAUL GREEN, *BSBI Welsh Officer, c/o Department of Natural Sciences, Amgueddfa Cymru-National Museum Wales, Cardiff, CF10 3NP.*
paul.green@bsbi.org

The last time I drove along the A55 on Anglesey there was so much snow I thought I would never reach Holyhead and the ferry across to Dublin. This year at the end of April it was full sun and Anglesey was looking stunning!

As soon as I saw the narrow strip along the margin of the A55 covered in *Cochlearia danica* (Danish Scurvygrass), the botany part of my brain kicked in, and said *Sagina maritima* (Sea Pearlwort). There was no way I was going to walk along such a busy road, but instead chose to stop at each layby.

I started my hunt at a layby on the Caernarvonshire side of the Menai Strait and from here found the Sea Pearlwort in every layby until the road ended at Holyhead (see images 5 and 6 on inside back cover). Along the roadside is a foot wide strip of gravel generally covered with Danish Surveygrass. Where the gravel was the dominant ground cover the Sea Pearlwort was rare, but where a thin layer of soil was starting to form the Sea Pearlwort formed a dense carpet. *Sagina procumbens* (Procumbent Pearlwort) was often abundant, and at one layby *Sagina apetala* (Annual Pearlwort) also grew with the other two Pearlworts. Another species I was surprised to see in this habitat was *Myosotis discolor* (Changing Forget-me-not), not easy to spot from a speeding car!

Sea Pearlwort is a dirty green/brown colour as is Annual Pearlwort which does not help with ID much. Sea Pearlwort could be mistaken as a very robust form of Annual Pearlwort, again not much help for ID. If you read the descriptions of both species, it is a wonder they can ever be told apart, as there is very little difference apart from the fact that Annual Pearlwort has a longer point at the tip of the leaf. Again not much help for ID. The 'jizz' or overall look of a plant, helps me much of the time – Sea Pearlwort as a rule will have a rosette of leaves with the flowering stems semi prostrate. While Annual Pearlwort has a rosette, the flowering stems tend to stand upright, often truly erect. Procumbent Pearlwort hopefully should be easier to ID as it is a perennial, often forming patches and is lime green in colour.

Do keep an eye out for Sea Pearlwort along the roads in Wales as there are very few inland records. It must be along other Welsh roads!

Happy Birthday SEWBReC!

KATH SLADE, *Dept. Natural Sciences, Amgueddfa Cymru-National Museum Wales, Cathays Park, Cardiff, CF10 3NP. katherine.slade@museumwales.ac.uk*

In February this year, the South East Wales Biodiversity Records Centre (SEWBReC) had their 10th anniversary. The usually Glamorgan Recorders and the Gwent Recorders Fora were combined into a special joint event for the occasion at the SOAR centre Pen-y-Graig, Rhondda. It was well attended with over 100 people signing up (which may well have been something to do with the birthday cake SEWBReC promised).

SEWBReC covers Glamorgan and Gwent, plus a small part of Breconshire vice-county 42, and has over 2.5 million wildlife records on their database. These data are drawn upon by consultants when reporting on sites for planning applications. More wildlife records in the system mean that more is known about sites and species in order to make informed decisions on future land developments.

Just before lunch, we were treated to a Pointless-style quiz* with questions such as:

- Name the birds from the photo (a female Blackcap being the bird the least number of people recognised),
- Name a country Alfred Russel Wallace visited (To commemorate the 100th anniversary of his death. This tied in nicely with a talk later by Julian Carter from Amgueddfa Cymru),
- Name the most common plant on the database (*Holcus lanatus*, Yorkshire Fog),
- Name the year that SEWBReC was launched (yes the answer was 2004, although a surprisingly low number of people got this right despite it being the 10th anniversary event!)

SEWBReC highlighted their new online recording software, SEWBReCORD, where people can enter and upload their data where it can then be verified. At the time of writing, this has been very productive, with over 10,000 records entered in the first 6 months. This is a flexible way to get your data to SEWBReC, share your records with others and view graphs and maps of your data. SEWBReC had thought that SEWBReCORD, combined with Square of the Month (used to

* For those of you who haven't seen Pointless on BBC2, contestants are asked to pick the answer that the least number of people knew, the opposite to Family Fortunes in effect.

highlight poorly recorded monads), had succeeded in erasing the last blank square in the database. Unfortunately, due to a technical hitch, this was only nearly the case. So there are still opportunities to enter the first records for *Holcus lanatus* for some squares!

There was a record number of speakers and it became hard to keep to time. Richard Wistow spoke passionately about the unusual mosaic of habitats on colliery spoil, where acid and alkali loving plants sit side by side. Julian Woodman spoke on the plants of Rhos pasture and Carys Solman encouraged us to visit the Wildlife Trust Nature Reserve at Taf Fechan (near Merthyr).

An award ceremony for outstanding recorders rounded the day off with Barry Stewart the runaway winner for the most records entered in the most number of taxa. As the master of ceremonies (and volunteer Director of SEWBRcC) Colin Cheesman said, you have another 10 years to catch up and enter over 200,000 records to overtake him.

Recent sightings of *Fumaria purpurea* (Purple Ramping-fumitory) in Wales

PAUL GREEN, *BSBI Welsh Officer, c/o Department of Natural Sciences, Amgueddfa Cymru-National Museum Wales, Cardiff, CF10 3NP.*
paul.green@bsbi.org

While walking NW along the B4419 from Moel-y-don (Mermaid Quay) (SH475650) on the BSBI *Taraxacum* Workshop weekend the group came across a patch of *Fumaria bastardii* (Tall Ramping-fumitory) and to our surprise also some *Fumaria purpurea* (Purple Ramping-fumitory). Several Welsh members said that is likely to be the first modern record for Anglesey. Looking up what information I could find this is the first record for Anglesey since 1967 when it was recorded from Red Wharf Bay.

Two days later I was driving along the B5420 in Portaethwy (SH553722), Anglesey, I saw a large patch of *Fumaria* growing on a bank above a wall. I stopped and went back and sure enough it was more *Fumaria purpurea*. Here there was a patch a good 4m long with several hundred flowering/fruited heads.

Five days later I was in the car with Tim Rich & Ceri Gait, on the edge of Chepstow (ST526932) on the A466. I shouted we have just driven by *Fumaria purpurea*. Coming up to a roundabout I jumped out of the car and collected a piece of the *Fumaria* while Tim found somewhere to pull over. Sure enough it was more *Fumaria purpurea*! This is the first record for Monmouthshire since 1990.

Since I put this article together Elsa Wood & Steph Tyler have found another site in Monmouthshire at Mathern (ST5290) where they had three large plants in the churchyard.

The only post 2000 records I have been able to trace for Wales are from Glamorgan at Llanduff (ST1577) in 2005 and Oxwich (SS4986) in 2008, both found by Tim Rich.

While looking on the DDb for Welsh records I noticed there was a 1975 record from Gileston (ST0166) on the Glamorgan coast. As this was not far from Cardiff I popped down to have a look on the 5th May, there were scattered patches around the car park (see images on front cover and inside front cover).

At the end of May I visited Dale (SM810063), Pembrokeshire where *F. purpurea* had been recorded by T.A.W. Davis in 1959. I found one plant along the coast path leading from the car park near the area where it was seen in 1959. Along the road heading south from the same car park I found an extremely large population stretching along the road bank for just over 200m. This is an extremely impressive site, and likely to be the largest population in Wales.

If you see a slightly larger looking *Fumaria muralis* subsp. *boraei* (Common Ramping-fumitory) with pedicels rigidly recurved, which look a little more purple than normal you could be seeing *F. purpurea*. The flowers normally start white, turning purple with age. The only other species of *Fumaria* in Wales with recurved pedicels is *Fumaria capreolata* (White Ramping-fumitory), this has white flowers, with a purple tip.

Welsh Officers' Update

PAUL GREEN, *c/o Department of Natural Sciences, Amgueddfa Cymru-National Museum Wales, Cardiff, CF10 3NP.*

paul.green@bsbi.org 02920 573152 / 07772 111113

POLLY SPENCER-VELLACOTT, *c/o Natural Resources Wales, Chester Road, Buckley, CH7 3AJ. polly.spencer-vellacott@bsbi.org*
03000 653893/ mobile 07967 820305

Since our last update in Welsh Bulletin No. 93 we have both been very busy with a variety of topics, but mainly Rare Plant Registers and getting ready for rare plant monitoring across Wales this summer.

We had run three very successful meetings for BSBI Wales by the end of April. We kicked off the field meeting season with a day in Castle Wood, near Ruthin, Denbighshire, looking at winter tree identification – nine members turned up in pouring rain at the beginning of March, but luckily the weather improved. We saw a good variety of conifers and looked closely at a lot of broadleaved species' buds. The second meeting was an open day to visit the Welsh National Herbarium in National Museum Cardiff. Members met the curators and learnt how to press and mount specimens. They were also given collection tours of the vascular plants, bryophytes, algae, fungi and lichens.

The third meeting was based at Treborth Botanic Garden (part of Bangor University) to learn about Dandelions over three days. We started with an introduction by Nigel Brown on the history of the Treborth Botanic Garden. This was followed by a talk by Tim Rich on dandelions including how to collect and preserve specimens. If this wasn't enough to scare us off from looking at dandelions John Richards took us on a dandelion walk. Our first species we looked at was *Taraxacum wallonicum*, our first new dandelion for Caernarvonshire. We continued looking at dandelions until around 4.30pm when the rain got the better of us. Ceri Gait was in charge of labelling and bagging all the new county records we had seen on our walk.

The evening session was spent pressing the specimens we had collected. The following day we headed into Anglesey where we visited Newborough Warren, Aberffraw and Moel-y-don (Mermaid Quay). John Richards didn't recognise immediately *Taraxacum richardsianum*, a dandelion named after him to the amusement of all present. 29 species of *Taraxacum* were new to Anglesey. Our last day was spent in Caernarvonshire where we walked around a meadow on the

edge of a small industrial estate. Here we saw many species of *Taraxacum* we had not seen previously. Over 30 species of *Taraxacum* were added to Caernarvonshire. The meeting was finished with a visit to the Great Orme where the dandelions were rather over their best. Instead, Wendy McCarthy gave us a tour of all the rare species to be seen on the Great Orme.

Paul stayed on after the workshop to spend three days surveying all the known *Taraxacum palustre* sites on Anglesey. It was found at four out of the six known sites, Newborough Warren being the best with several thousand individual plants.

The four main species we plan to survey this year are: *Antennaria dioica* (Mountain Everlasting), *Hammarbya paludosa* (Bog Orchid), *Pseudorchis albida* (Small-white Orchid) and *Trollius europaeus* (Globeflower). But as some counties don't have many sites or all the sites for these species have been surveyed in recent years we are planning to survey other rare county species, generally on SSSIs, but also rare county species at the request of the vice-county recorder.

If you would like to join us while out surveying please don't hesitate to contact us. Please do take a look at our blog – we are trying to put up pictures each week of some of the wonderful species we see around Wales, see bsbicymru.blogspot.co.uk

As some people will be aware, Polly is going to be taking maternity leave again from mid-July, but Paul will once again be working full-time and we are confident that a full service will be maintained!

Welsh Plant Records 2013

Welsh Plant Records are compiled by Stephen Coker, Mountain Grove, Clarboston Road, Haverfordwest, Pembrokeshire, SA63 4SG, from reports of BSBI vice-county Recorders to whom records should 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 vice-county record; ⊗ to indicate an updated VCCC record; ☞ to indicate a record demonstrating the rediscovery of a taxon published as extinct in the VCCC

+ 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.

†‡© after the species number: to indicate that the species is regarded as an archaeophyte, neophyte or casual generally within the vice county, different from that of the British Isles.

†‡© before the record: to indicate a species which although a native, archaeophyte or neophyte at least somewhere in the vice county, 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) are 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, more precise grid references may be included. A letter in parentheses following a grid reference indicates a tetrad.

The Vice-county Recorders from 1/1/2013 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 Pencaecrwn 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 & Dr J.R. Crellin; jrc@crellin.org.uk (*all correspondence to Mr Porter*).

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 & Mrs K.A. Pryce, Trevethin, School Road, Pwll, Llanelli, Carmarthenshire SA15 4AL; pryceeco@aol.com

PEMBROKE, v.c.45; Mr S.B. Evans, Glan-y-Mor, Dinas Cross, Newport, Pembrokeshire SA42 0UQ. 01348 811539; glanymor.dinas@onetel.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 Pulverbach, Shropshire, SY5 8BZ. 01743 718270; k.thorne@btinternet.com & Mr M. Duffell (*all correspondence to Dr Thorne*)

MERIONETH, v.c.48; Mrs S.E. Stille, 48 Foregate, Fulwood, Preston, PR2 8LA; mossysal@btinternet.com.

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@siriolbryn.co.uk.

FLINT, v.c.51; Ms E. Meilleur, 1 Fron Goch, Llanberis, Gwynedd, LL55 4LE. 01286 870173; emilytheameilleur@gwynedd.gov.uk or emilytmei1@gmail.com. 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. S.J. Tyler & E. Wood)

- +011/1. **Polypodium cambricum** (Southern Polypody) (Llawredynen Gymreig). Raglan Castle, SO41 08, E.G. Wood, 11th May 2013, 6+plants on the castle walls.
- +043/3.02×04. **Atriplex ×gustafssoniana** (**A. prostrata** × **A. longipes**) (Kattegat Orache) (Llygwyn Kattegat). Severn tunnel, ST4845 8711, P.R. Green, 2013, scattered on foreshore; (+) estuary, nr Portskewett, ST5124 8830, H. Colls, 20th Oct 2013, 6 plants.
- *‡045/2.1. **Claytonia perfoliata** (Springbeauty) (Porpin y Gwanwyn). Bullyhole Bottom, ST464 963, E.G. Wood, 11th Jul 2013, although a garden has been created around the stream the owners say this species was present by the stream in 1978 when they bought the land -it has increased significantly since then -c.1000 plants.
- +‡062/14.4. **Cardamine raphanifolia** (Greater Cuckooflower) (Blodyn Llefrith Mawr). Wentwood forest, ST413 939, E.G. & A. Wood, 25th Aug 2013, about 50 plants in wet hollow in woodland.
- +‡062/14.cor. **Cardamine corymbosa** (New Zealand Bitter-cress) (Berwr Chwerw Seland Newydd). Secret Garden Centre nr Usk, SO3181 0319, P.R. Green, 20th May 2013; (+) garden, nr Monmouth, SO51B, S.D.S. Bosanquet, 4th May 2014.
- +‡072/2.4. **Ribes sanguineum** (Flowering Currant) (Llwyn Cwrens Blodeuog). St Mary's Church of Portskewett and Sudbrook, ST498 882, E.G. & A. Wood, 1st Mar 2014, 2 small seedling plants on wall -pale pink form.
- +075/20.1. **Aphanes arvensis** (Parsley-piert) (Troed y Dryw). Car park of Welsh Water Office, Llandegfedd Reservoir, ST320 994, E.G. & A. Wood, 12th Apr 2013, several plants.
- +075/21.16 **Rosa sherardii** (Sherard's Downy-rose) (Rhosyn Sherard). Graig Syfyreddin nr Grosmont, SO40 22, E.G. Wood & S.J. Tyler, 8th Oct 2013, several plants in the hedgerows in this 1km square.
- +079/2.3. **Myriophyllum spicatum** (Spiked Water-milfoil) (Myrdd-ddail Ysbigog). Mathern, ST518 913, E.G. Wood, P.R. Green & S.J. Tyler, 4th Oct 2014, abundant in the pond.
- +‡091/2.16.b. **Euphorbia amygdaloides subsp. robbiae**. near Portskewett, ST507 886, E.G. & A. Wood, 1st Mar 2014, spreading into the native woodland adjacent to Cophthorne farm.
- +118/23.3×4.alo. **Mentha ×villosa var. alopecuroides**. Tintern, SO5200 0148, E.G. Wood, 19th Oct 2013, woodland ride, probably thrown out with garden waste.
- +120/1.5. **Callitriche obtusangula** (Blunt-fruited Water-starwort) (Brigwlydd Ffrwythau Blaendwn). Nant-y-draenog reservoir, ST189 935, E.G. & A. Wood, P.R. Green & S.J.

- Tyler, 13th Sep 2013, several clumps in the remaining puddles at the bottom of the drained reservoir.
- +124/02.4.‡ **Scrophularia scorodonia** (Balm-leaved Figwort) (Gwrnerth Dail Gwenyn). River Wye Tintern, SO531 007, E.G. Wood, 1st Oct 2013, one plant on the gabions beside the stream where it emerges into the river.
- *135/06.9×1. **Cirsium ×celakovskianum (C. palustre × C. arvense)**. Nant-y-draenog reservoir, ST188 937, E.G. & A. Wood, P.R. Green & S.J. Tyler, 13th Sep 2013, one plant in grassland beside the reservoir.
- +135/23.2. **Cicerbita macrophylla** (Common Blue-sow-thistle) (Llaethysgallen Las). A4046 at Ebbw Vale, ST16 08, E.G. Wood, 1st Aug 2013, about 12 plants spread out along the road.
- +‡135/44.2. **Conyza sumatrensis** (Guernsey Fleabane) (Amrhydlwyd Guernsey). Waste ground, Newport, ST38, H. Colls, 11th Aug 2013.
- +‡135/44.flo. **Conyza floribunda** (Many-flowered Fleabane). Waste ground, Newport, ST32 85, H. Colls, 11th Aug 2013; (+) waste ground, Severn Tunnel, ST48Y, E.G. Wood & S.J. Tyler, 4th Oct 2013, scattered plants; (+) Penhow quarry, ST42 91, E.G. & A. Wood & S.J. Tyler, 17th Dec 2013, few plants scattered in quarry; (+) Tintern, Angiddy valley, SO515 004, E.G. Wood, 1st Sep 2013, a few plants on the dry walls of the old Angiddy furnace.
- +‡147/5.2.b. **Arum italicum subsp. italicum**. Trowbridge, ST2335 7955, P.R. Green, 5th Jan 2013.
- *‡148/2.tur. **Lemna turionifera**. Magor, ST4227 8652, P.R. Green, 2nd Sep 2013, frequent in the reed at the entrance to Magor reserve.
- +151/1.25×26. **Juncus ×diffusus (J. effusus × J. inflexus)** (Diffuse Rush). Mathern, ST518 913, E.G. Wood, P.R. Green & S.J. Tyler, 4th Oct 2013, one plant by pond.
- +152/11.1.‡ **Cyperus longus** (Galingale) (Ysnoden Fair). Mathern, ST518 913, E.G. Wood, P.R. Green & S.J. Tyler, 4th Oct 2013, planted in new fishing ponds at Mathern.
- +152/16.27. **Carex pseudocyperus** (Cyperus Sedge) (Hesgen Gynffonnog). Mathern, ST518 913, E.G. Wood, P.R. Green & S.J. Tyler, 4th Oct 2013, probably planted in new fishing ponds at Mathern.
- ℞152/16.54. **Carex montana** (Soft-leaved Sedge) (Hesgen Feddal). Livox Quarry, ST539 973, D. Green, 1st Apr 2013, 5 clumps on rocky ledge above quarry.
- +153/13.1×2. **Lolium ×boucheanum (L. perenne × L. multiflorum)**. Mathern, ST519 915, E.G. Wood, P.R. Green & S.J. Tyler, 4th Oct 2013, several plants in arable field of *Lolium multiflorum*.
- *153/18.01. **Poa infirma** (Early Meadow-grass) (Gweunwellt Cynnar). Magor Service Station, ST42133 88015, P.R. Green, 30th Mar 2013, on waste ground 1m x 0.5m by red bin and base of *Sorbus* tree.
- +153/51.3. **Bromopsis erecta** (Upright Brome) (Pawrwellt Talsyth). Sudbrook, ST505 874, E.G. & A. Wood, 6th Jul 2013, 2 plants in grassland.
- +‡153/62.1. **Cortaderia selloana** (Pampas-grass) (Peithwellt). Penhow quarry, ST42 91, E.G. & A. Wood & S.J. Tyler, 17th Dec 2013, 5 mature plants -quarry disused since 2011.

- +‡153/70.pum.© **Setaria pumila** (Yellow Bristle-grass) (Cibogwellt Melyn). By Barecroft Common, ST417 868, A. Wood, 23rd Aug 2013, 1 plant growing on roadside opposite a house -probably from bird seed.
- +‡158/32.1. **Galanthus nivalis** (Snowdrop) (Eirlys). Hedgerows and verges, near Portskewett, ST58E, E.G. & A. Wood, 1st Mar 2014, clumps naturalising in several places in the tetrad.
- *‡158/32.wor. **Galanthus woronowii** (Green Snowdrop). near Llangybi, ST362 973, E.G. & A. Wood, 3rd Mar 2013, probably planted but in the middle of a woodland at least 1km from the nearest garden.
- +159/05.08. **Iris foetidissima** (Stinking Iris) (Gellesgen Ddrewllyd). near Portskewett, ST507 886, E.G. & A. Wood, 1st Mar 2013, on both sides of the road opposite Crophorne farm

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

- ⊖015/2.3. **Asplenium obovatum** (Lanceolate Spleenwort) (Duegredynen Hirgul). Lane bank, Tonyrefail, SS9938 8694, D. Barden, 8th Dec 2013, second extant VC record. 40 plants.
- +017/1.1×2. **Polystichum ×bicknellii**. Pontardawe, SN72 04, C. & H. Hipkin, 3rd Aug 2013, in woodland corridor along south bank of River Tawe. Both parents also present.
- +017/1.2. **Polystichum aculeatum** (Hard Shield-fern) (Gwrychredynen Galed). Nant Corrwg Valley, SS88 99, C. & H. Hipkin, 21st Feb 2013.
- +017/3.c. **Dryopteris borreii**. Glynccorwg, SS87 99, P.R. Green, 7th Dec 2013; (+) Ogmores Forest, SS94 88, P.R. Green, 1st Dec 2013, walked along path in forest by Nant Iechyd.
- +027/1.1. **Ceratophyllum demersum** (Rigid Hornwort) (Cyrnddail Caled). Manselfield (Llewellyn garden/quarry), SS595 885, B. Stewart, 25th Apr 2013, pond; (+) Cwm Pelenna Forestry, SS80 95, C. & H. Hipkin, 24th Mar 2013, in pool near Mountain Centre.
- +031/5.05.b. **Fumaria muralis subsp. boraei**. Eglwys Nunydd Road, SS79 85, C. & H. Hipkin, 7th Aug 2013; (+) Swansea Canal at Cilmaengwyn, SN74 06, C. & H. Hipkin, 29th Aug 2013.
- +‡031/5.07.a. **Fumaria officinalis subsp. officinalis**. Kenfig Industrial Estate, SS79 83, C. & H. Hipkin, 1st Jun 2013.
- ⊗‡043/1.05. **Chenopodium glaucum** (Oak-leaved Goosefoot) (Troed-yr-wydd Dail Derw). Swansea Dock (base of eastern breakwater), SS6696 9183, B. Stewart & M. Pritchard, 6th Aug 2013, many plants.
- +043/6.6. **Salicornia fragilis** (Yellow Glasswort) (Llyr lys Melyn). Neath Estuary, SS73 93, C. & H. Hipkin, 5th Oct 2013.
- +045/3.1.b. **Montia fontana subsp. variabilis**. Fforch Egel, SN729 098, B. Stewart, 16th May 2013, disturbed land south of quarry.
- *‡053/2.2. **Malva pseudolavatera** (Smaller Tree-mallow) (Hocyswydden Fach). Dudley Winds Road, Cardiff, ST1884 7431, P.R. Green, 27th May 2013, scattered plants as garden weeds and at base of fence of several gardens, **Herb NMW**

- +062/15.6. **Arabis hirsuta** (Hairy Rock-cress) (Berwr-y-cerrig Blewog). Cwm Gwynfi, SS89 97, C. & H. Hipkin, 8th Jun 2013, a small population along forestry road.
- +062/23.5. **Cochlearia danica** (Danish Scurvygrass) (Llwylys Denmarc). M4: Gwenlais Tip, SN600 014, B. & S.J. Stewart, 20th Apr 2013, central reservation; (+) A465: Neath Valley, SN799 007, B. Stewart, 17th Apr 2013, central reservation; (+) A465: Ynys-Arwed, SN804 012, B. Stewart, 17th Apr 2013, central reservation.
- *‡062/25.2. **Capsella rubella** (Pink Shepherd's-purse) (Pwrs-y-bugail Gwridog). Harbour Drive, Cardiff, ST1940 7424, P.R. Green, 27th May 2013, one plant on edge of grass.
- ⊕062/33.1. **Diplotaxis tenuifolia** (Perennial Wall-rocket) (Roced-y-muriau Meinddail). Coast path, Rest Bay, SS79 78, Glamorgan Botany Group, 31st Aug 2013.
- ⊕065/8.3. **Gaultheria mucronata** (Prickly Heath) (Gweunlwyn Pigog). Boggy grassland, Evanstown, SS979 897, D. Barden, 11th Feb 2012.
- +069/8/1. **Samolus valerandi** (Brookweed) (Claerlys). Cwm Rhydymilwyr & surrounds, SS973 856, R. & L. Nottage, 9th Aug 2013.
- 073/5.5. **Sedum telephium** (Orpine) (Canewin). Road bank, Church Village, ST0764 8627, D. Barden, 5th Aug 2012; road bank, Pen-y-coedcae, ST0716 8717, D. Barden, 5th Aug 2012, update of pre 1970 record. Scarce in this part of Glamorgan.
- ⊕075/21.11. **Rosa stylosa** (Short-styled Field-rose) (Rhosyn Byrgolofnig). Grassland, Llanrumney, ST20672 79370, J.P. Woodman, 9th Aug 2013.



Image 2 : *Falcaria vulgaris* (Hirddail or Longleaf) growing at Port Talbot Docks (Phoenix Wharf) very close to the Rough Star-thistle (*Centaurea aspera*) site. Photo: B. Stewart.

- +‡077/13.1. **Securigera varia** (Crown Vetch) (Ffacbysen Goronog). land at west end of Queen's Dock, Swansea, SS6708 9194, B. Stewart, 6th Aug 2013, large patch against building.
- 077/14.12. **Vicia lathyroides** (Spring Vetch) (Ffacbysen y Gwanwyn). Sandy, lichen dominated grassland, Pant Mari Flanders, SS8799 7579, D. Barden, 5th May 2012.
- +091/2.07.© **Euphorbia stricta** (Upright Spurge) (Llaethlys Syth). Crynant Forest, SN78751 07739, C. & H. Hipkin, 20th Aug 2013, small population at side of forestry road.
- ⊗‡107/33.1. **Falcaria vulgaris** (Longleaf) (Hirddail). See image 2 on page 22 and image 3 below. Port Talbot Docks (Phoenix Wharf), SS76680 88715, B. Stewart, 21st Aug 2013, 17m x 3m patch along verge.
- +108/5.4. **Gentianella amarella** (Autumn Gentian) (Crwynllys yr Hydref). Panwaun Pen-y-coetgae, SN90 00, C. & H. Hipkin, 20th Sep 2013, about 120 plants in short turf at side of forestry road.
- +111/3.2.b. **Calystegia sepium subsp. roseata**. fields n.w. of Eglwys Nunydd Resr., SS7881 8567, B. Stewart, 13th Aug 2013.
- ⊗130/6.06×07. **Galium ×pomeranicum (G. verum × G. album)**. Dry stony grassland in front of sea wall, East Aberthaw, ST03913 66030, Glamorgan Botany Group, 23rd Jun 2013.



Image 3 : *Falcaria vulgaris* (Hirddail or Longleaf) flowers. Photo: B. Stewart.

- +135/28.03.14. **Hieracium subcrocatum** (Dark-styled Hawkweed). Rhyd-y-fro, SN71 05, C. & H. Hipkin, 5th Sep 2013.
- +135/35.4. **Inula crithmoides** (Golden-samphire) (Cedowydd Suddlon). Queen's Dock breakwater (w), SS671 918, B. Stewart, 5th Jul 2013, on seaward side of breakwater.
- +‡135/44.flo. **Conyza floribunda** (Many-flowered Fleabane). A48, SS80 85, C. & H. Hipkin, 28th May 2013.
- +‡135/55.3. **Anthemis cotula** (Stinking Chamomile) (Camri'r Cŵn). Culfor Road, SS5721 9755, B. Stewart, 11th Aug 2013, reseeded ground.
- +‡135/56.1. **Glebionis segetum** (Corn Marigold) (Melyn yr yd). Rhyd-y-fro, SN71 05, C. & H. Hipkin, 4th Sep 2013, a single plant in corner of field.
- *‡135/62.03. **Senecio inaequidens** (Narrow-leaved Ragwort) (Creulys Gulddail). Cardiff Bay, ST1939 7339, P.R. Green, 27th May 2013, one on waste ground.
- +135/62.12. **Senecio erucifolius** (Hoary Ragwort) (Creulys Lwyd). Park Howard Road, Cwmgors, SN702 111, BSBI Field Meeting, 4th Jul 2013, verge.
- +135/62.17. **Senecio sylvaticus** (Heath Groundsel) (Creulys y Rhos). Mynydd Marchywel-Crynant Forest North, SN76 06, C. & H. Hipkin, 25th Aug 2013.
- +‡139/1.1. **Aponogeton distachyos** (Cape-pondweed) (Alaw De Affrica). Glyncoirwg Cycle Path, SS86 97, C. & H. Hipkin, 5th Nov 2013, in lower Glyncoirwg pond.
- *‡147/1.2. **Acorus gramineus** (Slender Sweet-flag) (Gellesgen Bêr Fain). Cardiff Bay, ST1936 7382, P.R. Green, 27th May 2013, one clump on edge of water/shoreline. Likely to have been washed up and took root.
- *‡148/2.tur. **Lemna turionifera**. Cardiff Bay Wetlands Reserve, ST1866 7400, P.R. Green, 27th May 2013, little lagoon.
- *148/2.val.‡ **Lemna valdiviana**. Wyevale Garden Centre, Llansamlet, SS671 963, B. Stewart, 29th Jul 2013, abundant in aquatic section - a contaminant of all aquatic plants on sale.
- +‡152/11.2. **Cyperus eragrostis** (Pale Galingale) (Ysnoden-Fair Welw). Skewen, SS72 96, C. & H. Hipkin, 5th Feb 2013.
- +152/16.07. **Carex spicata** (Spiked Sedge) (Hesgen Ysbigog Borffor). Queen's Dock (w), SS671 919, B. Stewart, 5th Jul 2013.
- +152/16.09.a. **Carex divulsa subsp. divulsa** (Grey Sedge). Park Howard Road, Cwmgors, SN702 111, BSBI Field Meeting, 4th Jul 2013, one large tuft on verge.
- 152/16.29. **Carex vesicaria** (Bladder-sedge) (Hesgen Chwysigennaidd). Damp grassland, Llanrumney, ST20672 79370, J.P. Woodman, 9th Aug 2013.
- +153/18.09. **Poa compressa** (Flattened Meadow-grass) (Gweunwellt Cywasgedig). Maritime Road, Port Talbot, SS768 892, B. Stewart, 4th Sep 2013.
- +153/21.1. **Catapodium rigidum** (Fern-grass) (Gwenithwellt Caled). Cwmgors Workshops, SN703 112, BSBI Field Meeting, 4th Jul 2013.
- +‡153/50.7. **Bromus secalinus** (Rye Brome) (Pawrwellt Bach). arable between Junction 38 and Crematorium, SS794 860, B. Stewart, 13th Aug 2013; (+) A48 Access, Margam Park, SS81 84, C. & H. Hipkin, 16th Aug 2013, arable wheat fields at side of road.
- +153/51.1. **Bromopsis ramosa** (Hairy-brome) (Pawrwellt Blewog). Rhyslyn Afan Forest Park, SS80 94, C. & H. Hipkin, 15th Sep 2013.
- +‡153/52.1. **Anisantha diandra** (Great Brome) (Pawrwellt Mawr). Nicholaston Burrows., SS52 88, C. Hipkin, 4th Jun 2013, upper glume 24mm (mean), lower glume 17mm

(mean). Var. *diandus* identified by contraction of lemma above callus. Growing on open sand dunes.

- ☞‡158/24.07. **Allium triquetrum** (Three-cornered Garlic) (Garlleg Trianglog). Roadside, Llanedeym, ST20 78, P.R. Green, 19th May 2013; (☞) sliproad off A48, Llanedeym roundabout, ST2050 7922, J.P. Woodman, 13th Jun 2013, abundant along northern slip road.
- +‡158/32.1. **Galanthus nivalis** (Snowdrop) (Eirllys). River bank, Gwaun Elai, ST037 839, D. Barden, 6th Mar 2012

BRECON, v.c.42 (comm. M.Porter & J. Crellin)

- +c1-1-vul **Chara vulgaris** (Common Stonewort). Calcareous mire, Henallt Common, SO235 399, J. Crellin, det.J.R.Crellin, conf. Nick Stewart, 19th Sep 2013.
- *017/2.for. **Cyrtomium fortunei**. Wooded bank of disused railway, Hay-on-Wye, SO226 423, J. Crellin, det.J.R. Crellin, conf. F. Rumsey, 15th Oct 2013, **Hb JRC**
- *017/3.cyc. **Dryopteris cycadina**. Wooded bank of disused railway, Hay-on-Wye, SO226 423, J. Crellin, det.F. Rumsey, conf. F. Rumsey, 15th Oct 2013, **Hb JRC**
- +‡020/1.1.© **Abies alba** (European Silver-fir) (Ffyndwydden Arian). Plantation edge regrowth, Grwyne Fawr Valley, SO26 25, J. Crellin, 18th Jul 2013, self sown.
- +030/2.1. **Meconopsis cambrica** (Welsh Poppy) (Pabi Cymreig). ©Disturbed ground, Cwm Taf Fechan, SO03 08, J. Crellin, 22nd Jun 2013, update of pre-1987 record for hectad, but not native at this site.
- +031/4.1. **Ceratocarpus claviculata** (Climbing Corydalis) (Mwg-y-ddaear Dringol). Hedge bank, Cwm Hydfer, 2km S of Pont ar Hydfer, SN851 266, M. & C. Porter, 29th Jun 2013, update of pre-1970 record for hectad.
- *036/1.1.b. **Urtica dioica subsp. galeopsifolia**. Damp woodland, Edge of Llangors Lake, SO126 261, P.R. Green & J. Crellin, 22nd Aug 2013, 1st record of ssp.for vc42.
- +‡037/1.1. **Juglans regia** (Walnut) (Coeden Cnau Ffrengig). Grassland, Crickadarn, SO077 414, J. Crellin, 7th Jun 2013.
- +040/3.1.‡ **Carpinus betulus** (Hornbeam) (Oestrwydden). Plantation, Cefn Cil-Sanws, SO03 08, J. Crellin, 22nd Jun 2013.
- +‡043/1.08. **Chenopodium polyspermum** (Many-seeded Goosefoot) (Troed-yr-wydd Amlhadog). Garden weed, Llangynidr, SO167 196, M. & C. Porter, 1st Jun 2013.
- +046/17.4. **Spergularia rubra** (Sand Spurrey) (Troellig Arfor Coch). River shingle, SO084 175, Brecon Botany Group, 1st Aug 2013, update of pre-1987 record for hectad.
- ⊗047/1.16. **Persicaria minor** (Small Water-pepper) (Y Dinboeth Fach). Shore of reservoir, Llwyn-on Reservoir 3km N of Cefn Coed, SO0076 1246, P.R. Green, 11th Sep 2013, extensive population. 3rd record for vc42; (+) margin of Llangorse Lake, Llangasty, SO134 263, J. Crellin, S. Coates & P.R. Green, 22nd Aug 2013, 2nd record for vc42, **Herb.J.R.C.**
- +047/8.13×19. **Rumex pratensis** (Meadow Dock). Grassland, Llangors Common, SO13 26, P.R. Green, 22nd Aug 2013.
- +051/1.06×07. **Hypericum desetangsii** (Des Etangs' St John's-wort) (Eurinllys Des Etangs). Grassland, Crickadarn, SO077 414, J. Crellin, 7th Jun 2013.

- +‡053/1.7. **Malva neglecta** (Dwarf Mallow) (Corhocysen). Road verge, Cwmdu, SO180 238, M. & C. Porter, 23rd Jul 2013, update of pre-1970 hectad record, **Herb.M.P.**
- +‡069/3.1. **Cyclamen hederifolium** (Sowbread) (Bara'r Hwch). Road verge, Cradoc, SO01 30, J. Crellin, 25th Sep 2013; (+) road verge, Crickadarn, SO090 422, J. Crellin, 12th Sep 2013.
- +‡072/2.4. **Ribes sanguineum** (Flowering Currant) (Llwyn Cwrens Blodeuog). Hedge, Brecon, SO04 28, J. Crellin, 9th Apr 2013.
- +‡074/05.08×09. **Saxifraga ×urbium** (Londonpride) (Balchder Llundain). Grassland, Llandefalle Churchyard, SO107 355, J. Crellin, 20th Jun 2013.
- *‡074/07.1. **Tolmiea menziesii** (Pick-a-back-plant) (Crydlys). Shady stream bank, Llanigon, SO231 381, M. & C. Porter, 2nd Jul 2013, **Herb.M.P.**
- +‡074/08.1. **Tellima grandiflora** (Fringecups) (Clychau'r Clawdd). Road verge, Cwm Taf Fechan, SO03 08, J. Crellin, 22nd Jun 2013; (+) grassland, Llandefalle churchyard, SO107 355, J. Crellin, 20th Jun 2013.
- +075/09.13.b. **Potentilla erecta subsp. strictissima** (a subspecies of Tormentil). Hedge bank, Cwm Hydfer, 2km S of Pont ar Hydfer, SN851 266, M. & C. Porter, 29th Jun 2013.
- +075/13.1×2. **Geum ×intermedium** (Hybrid Avens) (Mapgoll Groesryw). Woodland, Cwm Taf Fechan, SO03 08, J. Crellin, 22nd Jun 2013, update of pre-1987record.
- +‡075/32.16. **Cotoneaster integrifolius** (Entire-leaved Cotoneaster) (Cotoneaster Cyfandail). Grassland, Llandefalle churchyard, SO107 355, J. Crellin, 20th Jun 2013.
- +077/14.08. **Vicia tetrasperma** (Smooth Tare) (Ffacbysen Lefn). Lane bank, Llanigon, SO222 395, M. & C. Porter, 18th Jul 2013.
- +077/19.13. **Trifolium micranthum** (Slender Trefoil) (Meillionen Hopysaidd Eiddil). Hill grassland, Cefn Cilsanws, SO02 08, P.R. Green, 6th Jun 2013.
- +‡084/1.08. **Epilobium ciliatum** (American Willowherb) (Helyglys America). Road verge, Grwyne Fawr Valley, SO248 291, J. Crellin, 18th Jul 2013.
- +103/1.07. **Geranium pratense** (Meadow Crane's-bill) (Pig-yr-aran y Weirglodd). Road verge, Cwm Taf Fechan, SO03 08, J. Crellin, 22nd Jun 2013.
- +106/1.2.b. **Hedera helix subsp. hibernica** (Atlantic Ivy) (Iorwg yr Iwerydd). Rhiwnant Farm Claerwen, SN89 61, R.G. Woods, 8th Jul 2013; (+) grassland, Llandefalle churchyard, SO107 355, J. Crellin, 20th May 2013.
- +107/30.1. **Sison amomum** (Stone Parsley) (Perllys y Cerrig). Canal bank, Llangynidr, SO165 195, M. & C. Porter, 21st Sep 2013.
- +107/40.1.syl. **Pastinaca sativa subsp. sylvestris**. Road verge, Nr Felin-fach, SO085 316, S. Coates, 23rd Jul 2013.
- *‡116/04.1×2×4. **Symphytum ×hidcotense [Symphytum 'Hidcote Blue'] (S. officinale × S. asperum × S. grandiflorum)** (Hidcote Comfrey) (Cyfar dwf Hidcote). Road verge, Cockit Hill nr Llangors, SO157 282, J. Crellin, 15th May 2013.
- +116/15.04. **Myosotis laxa** (Tufted Forget-me-not) (Sgorpionllys Siobynnog). Rhiwnant Farm Claerwen, SN86, R.G. Woods, 8th Jul 2013.
- +116/15.10. **Myosotis discolor** (Changing Forget-me-not) (Sgorpionllys y Amryliw). Grassland, Vaynor, SO048 102, M. Porter, 19th Jun 2013, update of pre-1987 hectad record.

- +118/10.2. **Scutellaria galericulata** (Skullcap) (Cycyllog). Marsh, S margin of Talybont Reservoir, SO089 176, Brecon Botany Group, 1st Aug 2013, update of pre-1987 record for hectad.
- +118/23.1×2. **Mentha ×verticillata** (Whorled Mint) (Mintys Troellennog). Upland common rill, Twyn y Beddau, Black Mountains, 3km S of Hay-on-Wye, SO24 38, J. Crellin, 15th Aug 2013.
- +118/23.1×3. **Mentha ×gracilis** (Bushy Mint) (Mintys Culddail). Marshy meadow, Nr.Crickadarn, SO07 41, J. Crellin, 10th Sep 2013, update of pre-1970 hectad record.
- +118/23.2×3. ‡ **Mentha ×piperita** (Peppermint) (Mintys Poeth). Marshy meadow, Nr.Crickadarn, SO07 41, J. Crellin, 10th Sep 2013; (+) grassland, Llangors Common, SO127 271, J. Crellin, 12th Sep 2013, update of pre-1987 hectad record.
- *‡124/08.1.© **Chaenorhinum origanifolium** (Malling Toadflax) (Trwyn-y-llo Caint). Pavement, Hay-on-Wye, SO227 421, J. Crellin, 10th Jan 2013.
- +135/06.9×1. **Cirsium ×celakovskianum**. Grassland, Llangors Common, SO1283 2718, J. Crellin, 12th Sep 2013.
- +135/11.deb. **Centaurea debeauxii** (Slender Knapweed). Hay meadow, Trewalkin, nr.Talgarth, SO15 31, J. Crellin, 26th Aug 2013.
- +135/21.4. **Sonchus asper** (Prickly Sow-thistle) (Llaethysgallen Arw). Rhiwnant Farm Claerwen, SN89 61, R.G. Woods, 8th Jul 2013.
- +135/30.4. **Filago minima** (Small Cudweed) (Edafeddog Fach). River shingle, Bank of Afon Caerfanell, SO08 17, Brecon Botany Group, 1st Aug 2013.
- *‡147/2.1. **Lysichiton americanus** (American Skunk-cabbage) (Pidyn-y-gog Americanaidd). Marshy meadow, Nr.Crickadarn, SO078 415, V. Morgan, 7th Jun 2013.
- +148/2.1. **Lemna gibba** (Fat Duckweed) (Llinad Crythog). Upland common, Llwyn Llwyd, 1km SE of Soar, SN98 31, J. Crellin, 25th Sep 2013.
- +‡148/2.tur. **Lemna turionifera**. Lake, Crickadarn, SO077 416, J. Crellin, 10th Sep 2013.
- +152/16.07. **Carex spicata** (Spiked Sedge) (Hesgen Ysbigog Borffor). Lane bank, Llanigon, SO222 395, M. & C. Porter, 18th Jul 2013.
- +152/16.08.b. **Carex muricata subsp. pairae** (Small-fruited Prickly-sedge). Lane bank, Crickadarn x Erwood, SO084 422, M. & C. Porter, 20th Jul 2013, update of pre-1987 record for hectad.
- +152/16.47. **Carex pallescens** (Pale Sedge) (Hesgen Welw). Rhiwnant Farm Claerwen, SN89 61, R.G. Woods, 8th Jul 2013.
- *‡153/17.3© **Briza maxima** (Greater Quaking-grass) (Crydwellt Mawr). Pavement, Church Street, Bronllys, SO144 249, M. Lush, 7th Jun 2013.
- +153/24.3. **Glyceria declinata** (Small Sweet-grass) (Melyswellt Llwydilas). Rhiwnant Farm Claerwen, SN89 61, R.G. Woods, 8th Jul 2013.
- +153/56.1. **Elytrigia repens** (Common Couch) (Marchwellt). Rhiwnant Farm Claerwen, SN89 61, R.G. Woods, 8th Jul 2013.
- +158/20.2×3. ‡ **Hyacinthoides ×massartiana** (Clychau'r-gog Croesryw). Copse, Vaynor, SO048 102, M. Porter, 19th Jun 2013.
- +162/16.1. **Gymnadenia conopsea** (Fragrant Orchid) (Tegeirian Pêr). Hay meadow, Llanigon, SO230 379, M. Porter, 2nd Jul 2013, additional hectad for segregate.
- 162/18.1×4. **Dactylorhiza fuchsii × D. praetermissa = D. ×grandis**. Grassland, Penderyn, SN942 086, J.P. Woodman, 24th Jun 2013

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

- ☒‡028/06.1. **Aconitum napellus** (Monk's-hood) (Cwccwll y Mynach). Hedgerow, Rhiw Fwnws, SO168 533, S. Spencer, 20th Jul 2013.
- ☒‡046/19.1. **Agrostemma githago** (Corncockle) (Bulwg yr yd). Hedgerow, Discoed, SO278 648, S. Spencer, 1st Jun 2013, presume planted or garden escape.
- ⊗062/34.5.‡ **Brassica nigra** (Black Mustard) (Mwstard Du). Garden, Penmaenau, SO031 523, A. Vaughan, 2013, possibly from bird seed.
- *‡065/02.2. **Rhododendron luteum** (Yellow Azalea) (Rhododendron Felen). Scrubby road bank, Yr Allt, SO001 623, P.R. Green, 28th May 2013.
- ⊗‡074/08.1. **Tellima grandiflora** (Fringecups) (Clychau'r Clawdd). Roadside, Penmaenau, SO031 523, A. Vaughan, 2013, presume garden escape.
- ☒‡075/03.1×3. **Spiraea ×pseudosalicifolia** (Confused Bridewort) (Ffug Erwain-dail-helyg). Hedgerow, Llwyncwttta, SN99 69, A. Vaughan, 6th Aug 2013.
- *‡110/1.1. **Nicandra physalodes** (Apple-of-Peru) (Afal Periw). Garden, Penmaenau, SO031 523, A. Vaughan, 2013.
- *124/25.2.b. **Pedicularis sylvatica subsp. hibernica**. Upland peaty flush, Source of river Edw, SO13871 60307, E. Dean & S. Spencer, 31st Aug 2013; (*) upland peaty flush, Pye Corner, SO14 60, E. Dean & S. Spencer, 31st Aug 2013.
- ⊗‡135/28.01.1.bla. **Hieracium sabaudum f. bladdonii**. Grassy garden, Penmaenau, SO031 523, A. Vaughan, det.D. J. McCosh, 2013.
- ⊗135/28.01.5. **Hieracium vagum** (Gabrous-headed Hawkweed). Grassy garden, Penmaenau, SO031 523, A. Vaughan, 2013.
- ⊗135/28.04.24. **Hieracium scabrisetum** (Scabrous Hawkweed). Grassy garden, Penmaenau, SO031 523, A. Vaughan, 2013.
- ⊗135/28.07.69.‡ **Hieracium acuminatum** (Tall Hawkweed). Grassy garden, Penmaenau, SO031 523, A. Vaughan, det.D. J. McCosh, 2013.
- ⊗135/28.07.72. **Hieracium diaphanum** (Dark-leaved Hawkweed). Grassy garden, Penmaenau, SO031 523, A. Vaughan, det.D. J. McCosh, 2013.
- *‡135/55.3. **Anthemis cotula** (Stinking Chamomile) (Camri'r Cŵn). Roadside, Dolley Old Bridge, SO27 65, E. Dean & S. Spencer, 6th Jul 2013.
- *‡135/74.1. **Ambrosia artemisiifolia** (Ragweed) (Bratlys). Garden, Penmaenau, SO031 523, A. Vaughan, 2013, probably from bird seed.
- *151/1.26×27. **Juncus ×kem-reichgeltii**. Floodplain fen, Llanbwchlllyn, SO11 46, J. Clayfield, 5th Jul 2013.
- ☒153/51.3. **Bromopsis erecta** (Upright Brome) (Pawrwellt Talsyth). Garden, Dyfnant, SO02 59, R. Woods, 23rd Jun 2013.
- *‡153/68.1. **Echinochloa crus-galli** (Cockspur) (Cibogwellt Rhydd). Garden, Penmaenau, SO031 523, A. Vaughan, 2013, definitely bird seed alien.
- *‡153/PAN.mil. **Panicum miliaceum** (Common Millet) (Miled). Garden, Penmaenau, SO031 523, A. Vaughan, 2013, probably from bird seed

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

- +001/4.1. **Diphasiastrum alpinum** (Alpine Clubmoss) (Cnwp-fwsogl Alpaidd). Disused Millstone Grit quarry, Banc Wern-Wgan, Mynydd Du, SN6814 1790, R.D. & K.A. Pryce, 11th Aug 2013, about 35 'rosettes' - one plant extending under spoil rocks on stolons for c.60cm x 30cm.
- +005/1.1. **Ophioglossum vulgatum** (Adder's-tongue) (Tafod y Neidr). Garden lawn, Pantglas Park, Llandeilo, SN6341 2344, S. Enoch, conf. A. Heath, 5th Jun 2013, 35 plants.
- +017/1.1×2. **Polystichum ×bicknellii (P. setiferum × P. aculeatum)**. By wooded track, Abergorlech, SN5877 3352, R.D. & K.A. Pryce, 2nd Feb 2013, one small plant with one small plant of *Polystichum setiferum* but no *P. aculeatum*; (+) wooded gorge, Llwynrynn, Bethlehem, SN676 238, BSBI Meeting, det.G.M. Kay, R.A. Jones, M.O. Stead & P. Spencer-Vellacott, 3rd Jul 2013, with both parents.
- +017/3.c. **Dryopteris affinis subsp. borrieri**. Dune woodland, MoD Pendine, SN2784 0763, BSBI Meeting, det.A.O. Chater & R.D.Pryce, 30th Jun 2013, several plants.
- +028/03.1. ‡ **Helleborus foetidus** (Stinking Hellebore) (Crafanc-yr-arth Ddrewllyd). Disused quarry, Crwbin, SN4670 1267, P.R. Green, 3rd Mar 2013, one plant.
- 028/17.4. **Thalictrum minus** (Lesser Meadow-rue) (Arianllys Bach). See image 4 below. Limestone outcrop, Foel Fawr, Mynydd Du, SN7361 1877, R.D. & K.A. Pryce, 25th Aug 2013, many small sheep-grazed plants in shallow grykes and crevices near summit



Image 4: *Thalictrum minus* (Arianllys Bach/Lesser Meadow-rue). Photo: R.D. Pryce

- cairn and extending south to at least SN73581875. First localized records for this part of Mynydd Du.
- +031/4.1. **Ceratocapnos claviculata** (Climbing Corydalis) (Mwg-y-ddaear Dringol). Scrubby heathland, Mynydd-y-Garreg, SN4380 0886, R.D. Pryce & R. Davies, det.R.D. Pryce, 27th Aug 2013, several large plants at edge of path through bracken and bramble.
- *‡047/1.02. **Persicaria campanulata** (Lesser Knotweed) (Y Ganwraidd Fach). Old garden, Gellideg, nr. Llandyfaelog, SN4230 1050, I.K. Morgan & R.N. Stringer, 23rd May 2013, naturalized.
- +047/1.09. **Persicaria amphibia** (Amphibious Bistort) (Canwraidd y Dŵr). Shoreline, Usk Reservoir, SN8153 2824, I.K. Morgan & R.N. Stringer, 19th Jul 2013, first record for vc44 part of hectad.
- +©047/1.cap. **Persicaria capitata** (Pink-headed Persicaria)). Bare ground, Margam Place, Llanelli, SS5105 9970, I.K. Morgan, 6th Jan 2013, one strong plant on road side of base of garden wall.
- +047/8.13×15. **Rumex ×sagorskii**. Disturbed ground, Ffordd Werdd, Gorslas, SN5680 1420, R.D. Pryce, 30th Sep 2013, one plant on vegetated soil bund on house construction site.
- +‡051/1.03×04. **Hypericum ×inodorum** (Tall Tutsan) (Dail-y-Beiblau Tal). Disturbed ground, Bro Myrddyn, Job's Well Rd, Carmarthen, SN3967 2003, R.D. Pryce, 14th Oct 2013, occasional self sown plants at south boundary of Job's Well House.
- *051/1.06×07.a. **Hypericum ×desetangii nothosubsp. carinthiacum**. Disturbed ground, Rhiw las, N of Whitland Abbey, SN2134 2071, M. Sutton, 23rd Oct 2013, by barn. First VC Record for nothosubsp.
- +057/1.01. **Viola odorata** (Sweet Violet) (Fioled Bêr). Hedgebank, Trebeddrod Reservoir, Furnace, Llanelli, SN504 019, I.K. Morgan, 19th Mar 2013, clump c.18 inches across: white flowers with dark purple spur.
- +061/2.10×11. **Salix ×reichardtii**. Scattered scrub, Gwaun-cae-Gurwen, SN7017 1132, BSBI Meeting, 4th Jul 2013, on former railway embankment.
- +062/12.4. **Rorippa palustris** (Marsh Yellow-cress) (Berwr Melyn y Gors). Llanybri, SN34 12, P.R. Green, 25th Apr 2013, a BSBI recording group also recorded this species in a gateway to an improved field, 300m east of Black Scar, SN31441069, on 5th Jul 2013.
- +‡062/34.2.a. **Brassica napus subsp. oleifera** (Oil-seed Rape) (Rêp Had Olew). Scrub and tall herb vegetation around margins of stable yard, West of Panau-gleision, nr. Esgairdawe, SN6166 4073, R. Maskew, A.O. Chater & R.D. Pryce, det.A.O. Chater, 24th Sep 2013, with 3 plants of *Rorippa islandica*, 2 of *Matricaria recutita* and 1 plant each of *Trifolium pratense* var. *americana*, *Echinochloa crus-galli*, *Triticum aestivum* and *Avena sativa*.
- +©062/42.sat. **Raphanus sativus** (Garden Radish) (Rhuddygl y Gerddi). Barley field headlands, Penlan Farms, Kidwelly, SN4082 0854, R.D. & K.A. Pryce, 1st Aug 2013, occasional plants; also at SN40710862, SN40480852, SN40480869, SN40040867 and SN40820855.
- +069/2.1.© **Hottonia palustris** (Water-violet) (Pluddail y D'r). Small eutrophic pond, Dolaucothi, SN6646 4014, R. Harding & C. Manning, det.S.D.S. Bosanquet, 13th Jun 2013, in flower: dominant over the bottom of at least the north-eastern half of the pond,

- extending to an area of approx. c.10m (the width of the pond) x 20m (as measured by R.D. & K.A. Pryce on 31st Aug 2013). Located just outside the boundary of the Dolaucothi Gold Mines SSSI (the SSSI boundary follows the bank of the pond, excluding it).
- +‡075/03.2×3. **Spiraea ×billardii** (Billard's Bridewort) (Erwain Billard). Disturbed ground, W side of lane north of Olchfa Mill, Porthyrhyd, Llanwrda, SN7141 3691, BSBI Meeting, det.A.O. Chater, 2nd Jul 2013, naturalized plants mixed with native species on site of demolished cottage.
- +‡075/08.05.134.Him. **Rubus armeniacus cv. 'Himalayan Giant'**. Abandoned grounds, Job's Well House, Carmarthen, SN3969 1998, R.D. Pryce, 17th Oct 2013.
- +075/09.14×15. **Potentilla ×mixta** (Hybrid Cinquefoil) (Pumnalen Groesryw). Grassy bank, Llansteffan, SN3430 1065, M.Godfrey & J.Fode, det.G.M. Kay, 5th Jul 2013, extensive patch of double flowered plants frequent along c.50m of grassy sea-flood bank/promenade, stretching NE from this grid ref, also some single-flowered, **NMW**
- +075/15.2. **Agrimonia procera** (Fragrant Agrimony) (Llyisiau'r-dryw Pêr). Disused railway, Nr. Gwaun-cae-Gurwen, SN7014 1140, BSBI Meeting, det.R.D. Pryce, conf. A.O. Chater, 4th Jul 2013, one plant in rank grassland on embankment. First record for vc44 part of hectad.
- +075/21.04×12. **Rosa arvensis × canina**. Laneside hedgerow, E of Pencarreg, SN5451 4492, R. Maskew, A.O. Chater & R.D. Pryce, det.R. Maskew, 24th Sep 2013, 2 bushes.
- +075/21.12×15. **Rosa ×scabriuscula (R. canina × R. tomentosa)**. Flood-plain, River Teifi, Llanybydder, SN5200 4414, A.O. Chater, R.D. & K.A. Pryce, det.R. Maskew, 24/9/2013, 3rd Sep 2013, small area of woodland on river banks between kissing gate and start of former oxbow/ditch.
- +075/21.12×16. **Rosa ×rothschildii (R. canina × R. sherardii)**. Roadside hedge, N of Bryniau-isaf, nr. Esgairdawe, SN5878 3989, R. Maskew, A.O. Chater & R.D. Pryce, det.R. Maskew, 24th Sep 2013, also W of Maestyle, nr. Esgairdawe at SN59213983.
- +075/21.13b×12. **Rosa caesia subsp. vosagiaca × R. canina**. Hedgerow, South bank of Pencarreg Lake, SN5371 4549, R. Maskew, A.O. Chater & R.D. Pryce, det.R. Maskew, 24th Sep 2013, growing through hawthorn under large ash tree. New record for vc44 part of hectad. Also NW of Rhydfallen-iisaf, nr Esgairdawe at SN59944004.
- +075/21.15. **Rosa tomentosa** (Harsh Downy-rose) (Rhosyn Gwlanog). Riverbank scrub, River Teifi, Llanybydder, SN5211 4454, A.O.Chater, R.D.& K.A.Pryce, det.R. Maskew, 24th Sep 2013, one large bush under Alder tree. Another small bush on river bank at SN52114456.
- *‡077/19.09. **Trifolium resupinatum** (Reversed Clover) (Meillionen Wrthdro). Abandoned pig pens, Rhiw las, N of Whitland, SN2124 2081, M.D. Sutton, det.A.O. Chater, conf. D.A. Pearman & J. Poland, 23rd Oct 2013, **NMW**
- +‡077/22.1×2. **Laburnum ×watereri**. Hedgerow, Cefn Blaenau SSSI, SN5761 4182, BSBI Meeting, det.A.O. Chater, 3rd Jul 2013, mature tree in flower in hedgerow boundary between Cefn Blaenau and Pantycrwys.
- +081/1.1. **Lythrum salicaria** (Purple-loosestrife) (Llyisiau'r-milwr Coch). Road verge, N of Harford, SN6368 4326, R.D. & K.A. Pryce, 31st Aug 2013, one prominent plant in flower on verge on SW side of road.

- +‡084/4.1. **Oenothera glazioviana** (Large-flowered Evening-primrose) (Melyn-yr-hwyr Mawr). Disturbed ground, Llanybydder, SN5223 4408, A.O. Chater, R.D. & K.A. Pryce, 3rd Sep 2013, first record for Carms part of hectad.
- +‡084/4.3. **Oenothera biennis** (Common Evening-primrose) (Melyn yr Hwyr). Disturbed ground, SW corner of Pencarreg Lake, SN5361 4542, R. Maskew, A.O. Chater & R.D. Pryce, det.A.O. Chater, 24th Sep 2013, large stand on recently excavated south-facing cutting slope along line of former railway.
- +‡089/1.1×per. **Ilex ×altaclerensis** (Highclere Holly) (Celynnen Highclere). Scrub, Gwauncaecae-Gurwen, SN6988 1206, BSBI Meeting, det.A.O. Chater, 4th Jul 2013, well established tree of in bramble fringe to scrub/tree-dominated railway cutting.
- +©091/2.gri. **Euphorbia griffithii** (Griffith's Spurge). Disturbed ground, W side of lane north of Olchfa Mill, Porthyrhyd, Llanwrda, SN7141 3691, BSBI Meeting, det.G.M. Kay, 2nd Jul 2013, naturalized plants mixed with native species on site of demolished cottage. 2nd VC Record.
- +‡102/1.03. **Oxalis corniculata** (Procumbent Yellow-sorrel) (Suran Orweddol). Shingle shoal, River Teifi, Llanybydder, SN5245 4460, A.O. Chater, R.D. & K.A. Pryce, 3rd Sep 2013, one small plant on shoal and another on the vertical face of the river-cliff above. First record for vc44 part of hectad.
- +102/1.03.cor.atr. **Oxalis corniculata** var. **atropurpurea**. Wall, Llandybie, SN6177 1542, M. Godfrey, J. Fode, P. Spencer-Vellacott & K.A. Pryce, det.M. Godfrey, 2nd Jul 2013, low wall in front of Wesleyan Chapel. First post 1970 hectad record and first for the var.
- +103/2.3. **Erodium cicutarium** (Common Stork's-bill) (Pig-y-crëyr). Disturbed ground, Near Llwyn-y-Moch, upper Aman Valley, SN7471 1419, I.K. Morgan & R.N. Stringer, 6th Jun 2013, a few small sheep grazed plants on building waste spoil at edge of moorland track with *Catapodium rigidum*.
- +‡105/1.4. **Impatiens glandulifera** (Indian Balsam) (Jac y Neidiwr). Scrub, NW of Rhydfallen, nr. Esgairdawe, SN6072 4027, R. Maskew, A.O. Chater & R.D. Pryce, 24th Sep 2013, occasional west of bridge over Nant Tawe; (+) riverside woodland, Gwauncaecae-Gurwen, SN7024 1159, BSBI Meeting, det.B. Stewart, 4th Jul 2013, occasional plants.
- +107/28.4. **Apium inundatum** (Lesser Marshwort) (Dyfrforonen Fach). Flooded fen on pulverized fuel-ash lagoon, Pwll Fuel Ash Lagoon SSSI, SN4710 0106, A. Heath, conf. S.D.S. Bosanquet & A.O. Chater, Oct 2013, one plant about c.15cm x 40cm submerged in c.15cm of water in relatively open area of lagoon.
- +‡110/7.1.© **Solanum lycopersicum** (Tomato) (Tomato). Shingle shoal, River Teifi, Llanybydder, SN5251 4455, A.O. Chater, R.D. & K.A. Pryce, 3rd Sep 2013, also street weed at SN5236 4426.
- +‡118/04.1.c. **Lamiastrum galeobdolon** subsp. **argentatum**. River bank, Brynamman, SN7167 1398, R.D. Pryce, 29th Oct 2013, extensive naturalised colony on bank of River Amman (vc44 side) mostly under large stand of *Fallopia japonica*.
- +118/22.1. **Lycopus europaeus** (Gypsywort) (Llysiau'r Sipsiwn). Shoreline, Usk Reservoir, SN8153 2824, I.K. Morgan & R.N. Stringer, 19th Jul 2013.

- +‡118/23.1×2×3. **Mentha ×smithiana** (Tall Mint) (Mintys Coch). Bank of River Teifi, Llanybydder, SN5202 4418, A.O. Chater, R.D. & K.A. Pryce, det.A.O. Chater, 3rd Sep 2013, also at SN52064439 and SN 51964343. First records for vc44 part of hectad.
- +120/1.7. **Callitriche brutia var. hamulata** (Intermediate Water-starwort) (Brigwlydd Canolig). River Teifi, Llanybydder, SN5198 4412, A.O. Chater, R.D. & K.A. Pryce, 3rd Sep 2013, in-river, upstream of bridge, also in river at SN5197 4423. First record for vc44 part of hectad; (+) south bank of on-line pond in stream, Olchfa Mill south of Porthyrhyd, Llanwrda, SN7144 3683, BSBI Meeting, det.A.O. Chater, 2nd Jul 2013, one smallish plant.
- +124/01.12. ‡ **Verbascum lychnitis** (White Mullein) (Pannog Wen). Garden weed, Brynhawddgar, Cilsan, SN5985 2325, D. Smith, 12th Jul 2013, one spontaneous plant in blackcurrant patch. Also self-sown *V. thapsus* rosettes in vicinity.
- +124/13.1×4. **Linaria ×sepium**. Disturbed ground, Llanybydder, SN5199 4381, A.O. Chater, R.D. & K.A. Pryce, 3rd Sep 2013, partially vegetated stable yard.
- +‡124/13.3. **Linaria purpurea** (Purple Toadflax) (Llin-y-llyffant Porffor). Disturbed ground, Llanybydder, SN5223 4408, A.O. Chater, R.D. & K.A. Pryce, 3rd Sep 2013, one plant with one plant of *L. x dominii*. First record for Carms part of hectad; (+) Llansawel, SN63i, A. Copping, H. Cols & P. Spencer-Vellacot, 4th Jul 2013.
- +124/13.3×4. **Linaria ×dominii**. Lampeter, SN5811 4762, R.D. & K.A. Pryce, 31st Aug 2013, stone parapet of bridge over River Teifi (vc44 side). Also seen at Llanybydder, SN5223 4408 on 3rd Sep 2013 by A.O.Chater, RDP & KAP.
- +‡124/16.18. **Veronica peregrina** (American Speedwell) (Rhwyddlwyn America). Flower bed, National Botanic Garden of Wales, SN5216 1800, S.J. Thomas, 3rd Oct 2013, abundant in one spot in the Slate Beds.
- +‡124/16.19. **Veronica agrestis** (Green Field-speedwell) (Rhwyddlwyn-y-maes Gwyrdd). Chapel graveyard, Brynamman, SN7298 1405, R.D. Pryce, 24th Oct 2013, rare around a few graves.
- +124/20.03×09. **Euphrasia anglica × confusa**. Grazed heathland, Cwm Cathan, SN6531 0919, M. Stead, det.A.O. Chater, 4th Jul 2013, grazed heathland. Also at SN 65312 09189.
- +124/20.05.b. **Euphrasia arctica subsp. borealis**. Dry, acid/neutral grassland, Cefn Blaenau SSSI, SN5768 4185, BSBI Meeting, det.A.O. Chater, 3rd Jul 2013, also frequent elsewhere on this land holding; (+) cattle grazed rush pasture, Gwaun-cae-Gurwen, SN7009 1133, BSBI Meeting, det.A.O. Chater, 4th Jul 2013, rare. First record for vc44 part of hectad.
- +124/20.05×09. **Euphrasia arctica × confusa**. Dry, acid/neutral grassland, Cefn Blaenau SSSI, SN5768 4184, BSBI Meeting, det.R.N. Stringer, conf. A.O. Chater, 3rd Jul 2013, also at SN5774 4172; (+) unimproved rushy field, Gwaun-cae-Gurwen, SN6993 1193, BSBI Meeting, det.A.O. Chater, 4th Jul 2013, occasional on grassy path by corner of field.
- 128/2.2. **Utricularia australis** (Bladder wort) (Chwysigenddail). Eutrophic ox-bow pond, Bishop's Pond, Abergwili, Carmarthen, SN442 208, S.D.S. Bosanquet, 21st Jun 2013, abundant over much of pond.
- +‡129/1.9. **Campanula portenschlagiana** (Adria Bellflower) (Clychlys Adria). Church walls, Llanyndeyrn Church, SN4561 1397, R.D. & K.A. Pryce, 27th Apr 2013,

frequent clumps well naturalized on SW face of stone church tower and along SE facing wall and porches.

- +‡131/5.1. **Leycesteria formosa** (Himalayan Honeysuckle) (Bachgen Llwm). Crack in pavement on east side of car park, Llanybydder, SN5212 4408, A.O. Chater, R.D. & K.A. Pryce, 3rd Sep 2013, one small seedling. First record for Carms part of hectad.
- +134/1.1. **Dipsacus fullonum** (Wild Teasel) (Cribau'r-pannwr Gwylt). Woodland edge, Llanybydder, SN5200 4414, R. Maskew, A.O. Chater & R.D. Pryce, 24th Sep 2013, few plants. First record for vc44 part of hectad.
- +135/06.8. **Cirsium acaule** (Dwarf Thistle) (Ysgallen Ddigoes). Calcareous grassland, Banc Wern-Wgan, Mynydd Du, SN6839 1833, M. Stead during BSBI meeting, conf. R.D. & K.A. Pryce, A.O. Chater & G.M. Kay, 29th Jun 2013, one large plant comprising of many growing points covering 1.05m x 80cm in sheep-grazed grassland.
- +‡135/08.1. **Silybum marianum** (Milk Thistle) (Ysgallen Fair). Bare ground, National Botanic Garden of Wales, SN5208 1813, R.D. Pryce, 17th May 2013, self sown in pebbles around rock exhibit along The Broadwalk.
- +‡135/27.6. **Pilosella aurantiaca** (Fox-and-cubs) (Clust-y-llygoden Euraid). Churchyard, Newcastle Emlyn, SN3076 4078, R.D. & K.A. Pryce, 23rd Nov 2013, in north-west corner of mown, grassy churchyard and by central part of northern stone boundary wall. First record for vc44 part of hectad.
- +‡135/43.4. **Erigeron karvinskianus** (Mexican Fleabane) (Amrhydlywyd y Cerrig). Wall of bridge over Afon Teifi, Pont Tywely, SN4147 4030, P.R. Green, 27th Apr 2013.
- +‡135/44.flo. **Conyza floribunda** (Many-flowered Fleabane). Bare ground, Ffairfach, SN628 216, I.K. Morgan & R.N. Stringer, 9th Aug 2013, many plants around car park of Farmers CoOp/cattle market.
- +‡135/59.1. **Matricaria chamomilla** (Scented Mayweed) (Amranwen Bêr). Disturbed ground, W of Panau-gleision, nr. Esgairdawe, SN6166 4073, R. Maskew, A.O. Chater & R.D. Pryce, 24th Sep 2013, two plants in roadside yard containing scrap and big-bales.
- +135/62.10×11. **Senecio ×ostenfeldii**. Edge of coastal willow scrub, MoD Pendine Ranges, SN2692 0806, O. Howells, A. Morgan, R. Harding, F. Harries, A. Jones & R.D. Pryce, det.R.D. Pryce, 26th Sep 2013, north end of C8 Range.
- +‡135/62.13. **Senecio squallidus** (Oxford Ragwort) (Creulys Rhydychen). Llansawel, SN63i, A. Copping, H. Cols & P. Spencer-Vellacot, 4th Jul 2013.
- +‡135/69.1. **Doronicum pardalianches** (Leopard's-bane) (Llysiau'r Llewpart). Laneside hedge bank, Ty-newydd farm, Kidwelly, SN4007 0896, Llanelli Naturalists meeting, det.R.D. Pryce, 9th Jun 2013, several clumps in flower on south side of lane east from farm entrance. Also seen here by I.K.Morgan in 2011.
- +‡135/71.4. **Petasites fragrans** (Winter Heliotrope) (Alan Pêr). Hedgebank, Allt yr Arian, Talley, SN6330 3227, R.D. & K.A. Pryce, 10th Nov 2013, under small Taxus tree and 8m tall Buxus sempervirens.
- +‡135/79.1. **Helianthus annuus** (Sunflower) (Blodyn yr Haul). Gravel roadside, MoD Pendine, SN2603 0844, R.D. Pryce, 26th Sep 2013, one large seedling in crack between kerb and gravel pavement; (+) wall top, Bro Myrddyn, Job's Well Rd, Carmarthen, SN3968 2004, R.D. Pryce, 14th Oct 2013, one c.60cm plant, in seed self sown into top of stone boundary wall.

- +141/1.1. **Triglochin palustre** (Marsh Arrowgrass) (Saethbennig y Gors). Acid flush, Penybanc Farm, Cefn Blaenau SSSI, SN5839 4127, R.D. & K.A. Pryce & R. Harding, det.R.D.Pryce, 19th Sep 2013, a few plants with occasional *Hypericum elodes* and rare *Drosera rotundifolia*.
- +‡147/5.2.b. **Arum italicum subsp. italicum**. Trapp, SN6489 1857, P.R. Green, 29th Mar 2013, clump on road verge.
- +‡148/2.4. **Lemma minuta** (Least Duckweed) (Llinad Bach). Small ornamental pool, Newcastle Emlyn, SN3102 4076, R.D. Pryce, 23rd Nov 2013, garden of Catholic Church.
- +151/1.26×27. **Juncus ×kern-reichgeltii**. Coastal fen with encroaching scrub, MoD Pendine Ranges, SN277 076, BSBI Meeting, det.A.O. Chater, 30th Jun 2013, occasional plants over area c.200m x 100m: also at SN278076; (+) acid grassland field, Cefn Blaenau SSSI, SN5795 4171, BSBI Meeting, det.A.O. Chater, 3rd Jul 2013, one plant only seen.
- +152/16.09.a. **Carex divulsa subsp. divulsa** (Grey Sedge). Middle of track, Oaklands, Derwydd, SN6340 1820, M. Stead, 2nd Jul 2013, 4 plants.
- +152/16.11. **Carex disticha** (Brown Sedge) (Hesgen Lygliw). At edge of limestone-cobble surfaced development plateau with secondary fen to south, Machynys, Llanelli, SS5134 9854, Llanelli Naturalists meeting, det.R.D. Pryce, 1st Sep 2013, one plant about 0.5m in diameter.
- +152/16.25. **Carex acutiformis** (Lesser Pond-sedge) (Hesgen -y-d^hr Fach). Flush in acid grassland, Pantycrwys, Cefn Blaenau SSSI, SN5763 4171, BSBI Meeting, det.A.O. Chater, 3rd Jul 2013, occasional.
- +152/16.28. **Carex rostrata** (Bottle Sedge) (Hesgen Ylfinfain). Shoreline of reservoir, Usk Reservoir, SN8153 2824, I.K. Morgan & R.N. Stringer, 19th Jul 2013, first record for vc44 part of hectad.
- +152/16.31 **Carex pendula** (Pendulous Sedge) (Hesgen Bendrom). ‡Roadside bank, Cwmbyr, Talley, SN6335 3227, R.D. & K.A. Pryce, 10th Nov 2013, self-sown plants escaping from nearby garden. First post 1970 and localised record for hectad.
- +152/16.32. **Carex sylvatica** (Wood-sedge) (Hesgen y Coed). Laneside, By the Nant-y-Cadno, SN6415 0961, M. Stead, 4th Jul 2013, first post 1986 record for hectad and first for vc44 part of hectad.
- +152/16.39. **Carex laevigata** (Smooth-stalked Sedge) (Hesgen Lefn). Cwm Cathan, SN6551 0949, M. Stead, 4th Jul 2013, also at SN6525 0919. First records for vc44 part of hectad.
- +152/16.46.a. **Carex lepidocarpa** (Long-stalked Yellow-sedge). Acid flush, Penybanc Farm, Cefn Blaenau SSSI, SN5839 4127, R.D. & K.A. Pryce and R.Harding, 19th Sep 2013, two small clumps with *Hypericum elodes* and *Drosera rotundifolia*. Also in encroaching scrub at SN5845 4126.
- +152/3.4. **Eleocharis multicaulis** (Many-stalked Spike-rush) (Ysbigfrwynen Gadeiriog). Flush in acid grassland, Cwm Cathan, SN6525 0919, M. Stead, 4th Jul 2013, first record for vc44 part of hectad.
- +152/9.1. **Eleogiton fluitans** (Floating Club-rush) (Clwbfrwynen Arnofiol). Llanybydder, SN5199 4347, A.O. Chater, R.D. & K.A. Pryce, 3rd Sep 2013, one plant in flood-plain

- fen grazed, poached and wallowed by horses. Also rare *Carex vesicaria* and *Comarum palustre*.
- +153/12.01×13.01. **X *Festulolium loliaceum*** (Hybrid Fescue) (Peisrygwellt Croesryw). Neutral grassland, Whitehill Down SSSI, Laugharne, SN2884 1309, BSBI Meeting, det.A.O. Chater, A. Copping & G.M. Kay, 1st Jul 2013, locally frequent in south-west corner of site.
- +‡153/52.1. ***Anisantha diandra*** (Great Brome) (Pawrwellt Mawr). Disturbed ground, Coedbach former coal washery, nr. Kidwelly, SN4276 0615, R.D. Pryce, det.A.O. Chater & G.M. Kay 4th Sep 2013, 29th Aug 2013, c.12 desiccated plants. Second post 1930 record for VC, **NMW**
- +‡153/68.1.© ***Echinochloa crus-galli*** (Cockspur) (Cibogwellt Rhydd). Disturbed ground, Llanybydder, SN5199 4381, A.O. Chater, R.D. & K.A. Pryce, 3rd Sep 2013, one self-sown casual plant in partially vegetated stable yard.
- +©153/68.fru. ***Echinochloa frumentacea*** (White Millet) (Cibogwellt Gwyn). Disturbed ground, Tir Bocs, Kidwelly, SN4142 0787, I.K.Morgan, R.D. & K.A.Pryce, det.A. Copping 18th Nov 2013, 22nd Oct 2103, one plant in seed, growing by gate into chicken paddock. 2nd VC Record, **NMW**
- *‡158/24.09. ***Allium paradoxum*** (Few-flowered Garlic) (Cenhinen Brinflodeuog). Garden, Gellideg, nr.Llandyfaelog, SN423 104, I.K. Morgan & R.N. Stringer, det.I.K. Morgan, 18th Apr 2013, well established clump on right hand side of entrance columns in front of ruined mansion.
- +‡159/13.1. ***Crocossia paniculata*** (Aunt-Eliza) (Modryb Leusa). Churchyard, Llanfihangel Rhos-y-Corn Church, SN5495 3469, R.D. & K.A. Pryce, 19th Sep 2013, naturalised.
- +162/06.1. ***Neottia ovata*** (Common Twayblade) (Caineirian). By ditch, Welsh Wetlands Centre, Penclacwydd, SS5321 9861, N. Willaims, det.B. Stewart, 31st May 2013, at least six plants by ditch and at least a further twelve by footpath at SS5322 9866 on 16th Jun 2013. First records for Carms part of SS59.
- +162/13.1. ***Platanthera chlorantha*** (Greater Butterfly-orchid) (Tegeirian Llydanwyrdd). Unimproved neutral grassland pasture, Plas-y-Wenallt, nr. Kidwelly, SN4217 0981, S. Lynch, det.I. Macho, conf. R.D. Pryce, 11th Jun 2013, c.40 flowering spikes but hundreds reported earlier by landowner when plants were in flower. Found to extend to SN4216 0979, SN4216 0981 and SN4217 0979 when site visited on 16th Jul 2013 by R.D.& K.A.Pryce.
- *162/13.1×2. ***Platanthera* ×*hybrida***. Neutral grassland, Whitehill Down SSSI, Laugharne, SN2908 1306, A.O. Chater, 1st Jul 2013, out of 150 plants examined by AOC, only three had measurements intermediate between the two parent species, of these, two were morphologically similar to *P. chlorantha* (growing in the area of the main *P.chlorantha* population) and one to *P. bifolia* (growing in the *P. bifolia* population). Record made during visit by BSBI Glynhir recording group.
- +162/18.1×3.var. ***Dactylorhiza* ×*kernerorum***. Neutral grassland, Whitehill Down SSSI, Laugharne, SN2906 1319, BSBI Meeting, 1st Jul 2013, one plant with dark red flowers and spotted leaves.
- +162/23.3. ***Ophrys apifera*** (Bee Orchid) (Tegeirian y Wenynen). Llwyn-y-Piod, Trapp, SN6430 1902, I. Eden & A. Ellison, conf. R.D. Pryce, 13th Jul 2013, one plant by the side of a limestone-scalpings surfaced track

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

- +015/2.5.b **Asplenium trichomanes subsp. quadrivalens**. Good Hope Farm, East of Strumble Head, SM91255 40236, S.B. & A.E. Evans, 13th Jul 2013, growing on the mortared stone walls of an old farm building.
- +015/2.7. **Asplenium ruta-muraria** (Wall-rue) (Duegredynen y muriau). Good Hope Farm, East of Strumble Head, SM91255 40236, S.B. & A.E. Evans, 13th Jul 2013, growing on the mortared stone walls of an old farm building.
- +‡020/2.1. **Pseudotsuga menziesii** (Douglas Fir) (Ffynidwydden Douglas). Pant-teg Wood, Pengelli Forest NNR, Eglwyswrrw, SN12509 39390, S.B. & A.E. Evans, 23rd Nov 2013, a self-sown young Douglas Fir was growing on the side of the leet path within ancient sessile oak woodland.
- +028/13.11. **Ranunculus sceleratus** (Celery-leaved Buttercup) (Crafanc yr Eryr). Top of the Glen inlet, east side of Llys-y-fran Reservoir, SN04131 24940, S.B. & A.E. Evans, 10th Sep 2013, growing in deep organic silt on an inflow stream to the reservoir. A few other plants were scattered around the eastern shoreline at SN03950 24885, SN03996 25887, SN04192 26429 and SN04184 26503.
- +‡030/1.5.a. **Papaver dubium subsp. dubium** (Long-headed Poppy). Sageston Airfield, SN05489 02769, S.B. & A.E. Evans, 22nd Sep 2013, listed the ruderal plants on stony chippings.
- +‡030/6.1.© **Eschscholzia californica** (Californian Poppy) (Pabi Califfornia). Hole in the Wall, Haverfordwest, SM95415 15751, S.B. Evans, 28th Jul 2013, *Lobelia erinus* and *Eschscholzia californica* were growing in crevices between modern paving bricks at the foot of shop walls.
- +043/1.06. **Chenopodium rubrum** (Red Goosefoot) (Troed-yr-wydd Coch). Just above the Old Bridge, Haverfordwest, SM9538 1587, S.B. Evans, 5th Sep 2013, a mud bank of the Western Cleddau below a seldom used slipway had *Solanum nigrum*, *Chenopodium rubrum* and *C. polyspermum*.
- *047/4.bel. **Polygonum agrestinum** (Red-knotgrass). Jordanston Mountain, Redberth, SN08953 03593, M.D. Sutton, det.A.O. Chater, Aug 2013, edge of track near farmyard.
- +053/2.1. **Lavatera arborea** (Tree-mallow) (Hocyswydden). SW side of New Bridge, Haverfordwest, SM95515 15606, S.B. & A.E. Evans, 28th Jul 2013, a single non-flowering *Lavatera arborea* in the corner of the old store on the old quay of the tidal Western Cleddau.
- +‡057/1.11×12×alt.© **Viola ×wittrockiana** (Garden Pansy) (Trilliw'r Gerddi). Quayside south of the New Bridge, Haverfordwest, SM95514 15649, S.B. & A.E. Evans, 28th Jul 2013, a single flowering garden pansy on the edge of the old quay of the tidal Western Cleddau.
- +061/2.10×11. **Salix ×reichardtii**. Minerton field, Wyndrush Pastures, Redberth, SN09269 03558, M.D. Sutton, Aug 2013, .
- +062/12.4. **Rorippa palustris** (Marsh Yellow-cress) (Berwr Melyn y Gors). Western pond, Sandtop Bay, Caldey, SS1329 9653, S.B & A.E. Evans & M. Evans, 4th Sep 2013, frequent in the dried out bed of the shallow pond.
- +‡062/31.2. **Lepidium didymum** (Lesser Swine-cress) (Olbrain Bach). Llys-y-fran Country Park, SN0392 2451, S.B. Evans, 7th Sep 2013, patches of arable weeds/ruderal plants in

- an otherwise mown grassland slope. Presumably topsoil/subsoil had been spread here a year or so ago; (+) Poppit Dunes, SN1525 4851, S.B. & A.E. Evans, 12th Oct 2013, abundant in the new flower beds of the car park.
- +‡062/34.3. **Brassica rapa** (Turnip). Good Hope Farm, East of Strumble Head, SM91469 40592, S.B. & A.E. Evans, 13th Jul 2013, a single plant growing in a poached linear patch in the lee of a hedgebank by the coast.
- +‡062/38.1. **Hirschfeldia incana** (Hoary Mustard) (Mwstard Llwyd). Sageston Airfield, SN0531 0279, S.B. & A.E. Evans, 22nd Sep 2013, spoil bank on runway of disused airfield. Also on runway edge at SN0519 0308.
- ⊕069/4.3. **Lysimachia vulgaris** (Yellow Loosestrife) (Trewyn). Afon Nyfer, opposite Coedllwyngores, Nevern, SN09037 39273, H. Williams, 15th Aug 2013, growing on the floodplain of the Afon Nyfer. A post 1970 Hectad record.
- +069/6.2.a.azu **Anagallis arvensis subsp. arvensis f. azurea** (Scarlet Pimpernel azure form) (Llysiâu'r cryman). Lambeeth Farm, Hundleton, SM92467 01422, S.B. & A.E. Evans & C. Shellswell, 11th Jul 2013, *Anagallis arvensis* forma *azurea* was present in the field of broad beans but most flowers were scarlet.
- +‡073/1.3. **Crassula helmsii** (New Zealand Pigmyweed) (Corchwyn Seland Newydd). New pond, Freshwater East, SS0138 9789, S.B. & A.E. Evans, 22nd Sep 2013, flowering in the relative new pools alongside the boardwalk.
- *075/09.13.b. **Potentilla erecta subsp. strictissima** (a subspecies of Tormentil). Jordanston Mountain, Redberth, SN09242 03750, M.D. Sutton, det.A.O. Chater & S.P. Chambers, Jul 2013, at least a few plants on the woodland boundary with Minerton.
- +075/20.2. **Aphanes australis** (Slender Parsley-piert) (Troed-y-dryw Main). Lambeeth Farm, Hundleton, SM938 030, S.B. & A.E. Evans & C. Shellswell, 11th Jul 2013, the field had been ploughed in autumn 2012 but following failed germination of cereal the field had been sprayed and left fallow.
- +‡077/17.1. **Melilotus altissimus** (Tall Melilot) (Yr Wydro Dal). Sageston Airfield, SN0531 0279, S.B. & A.E. Evans, 22nd Sep 2013, spoil bank on runway of disused airfield.
- +077/19.13. **Trifolium micranthum** (Slender Trefoil) (Meillionen Hopysaidd Eiddil). Track south of Good Hope Farm, East of Strumble Head, SM91259 40150, S.B. & A.E. Evans, 13th Jul 2013, stony centre of the single stone track sandwiched between two hedgerow banks.
- *‡077/19.19.a.© **Trifolium incarnatum subsp. incarnatum** (Crimson Clover) (Meillionen Waetgoch). Neath farm, Rhoscrowther, SM90629 01012, C. Hurford, 30th Jul 2013, five plants near a roadside gate into an arable field. The farmer explained that old rocks and soil from around the demolished high wall of the Orierton Estate had recently been used to pack this gateway. *Centaurea cyanus* was also present. There had been a record of *Trifolium incarnatum* from Dale Point on 26th Jun 1901 by E.H. Edwards but there had been no specimen.
- +‡080/1.1. **Gunnera tinctoria** (Giant-rhubarb) (Rheonllys Mawr). Glan-y-mor, Dinas Cross, SN02390 38640, S.B. Evans, 12th Aug 2013, 5 small plants self seeded into a field of semi-improved grassland. The parent had been growing and flowering in an adjacent garden for several years. Quite how the seed had spread the ca. 30 metres is unknown.

- +‡084/5.1. **Fuchsia magellanica** (Fuchsia) (Ffiwsia). Walls of house including towers, Newport Castle, SN0571 3888, S.B. & A.E. Evans & M. & G. Davies, 6th Jul 2013, growing on the walls of the Castle house and the towers attached to the house.
- +‡103/1.01×02. **Geranium oxonianum** (Druce's Crane's-bill) (Pig-yr-aran Druce). Track to Great Castle Head, Sandy Haven, SM84731 06872, J. Warr, det.S.B. Evans, 28th Jun 2013, first found on a low hedgebank at least 5 years ago. It was away from any habitation and had spread but there had been a few other garden plants that had not naturalised.
- +103/1.15. **Geranium pusillum** (Small-flowered Crane's-bill) (Pig-yr-aran Fân-flodeuog). Gupton Farm, Castlemartin, SR8967 9889, C. Shellswell, 9th Jul 2013, the field was ploughed in May 2012 and sown with maize and in March/April 2013 with barley.
- +‡107/25.1. **Conium maculatum** (Hemlock) (Cegiden). Ysgol Hill, Maenclochog, SN0760 2877, S.B. & A.E. Evans, 26th Jun 2013, edge of upland hay meadow - reverting from semi-improvement.
- +‡110/1.1.© **Nicandra physalodes** (Apple-of-Peru) (Afal Periw). Glandy, Dinas Cross, SM9999 3791, S.B. & A.E. Evans, 21st Sep 2013, *Nicandra physalodes* had self-sown into the vegetable garden.
- +110/2.1.‡ **Lycium barbarum** (Duke of Argyll's Teaplant) (Ysbeinwydden Hardd). Penuel Chapelyard, Roch, SM870 218, S.B. Evans, 22nd Jun 2013, apart from a few areas the chapelyard was cut short. *Lycium barbarum* was on the back hedge which seemed to border an overgrown garden.
- +‡110/7.1.© **Solanum lycopersicum** (Tomato) (Tomato). Freshwater East beach, SS0168 9775, S.B. & A.E. Evans, 22nd Sep 2013, a small tomato was growing where the stream outflow discharges to the sandy beach.
- +110/8.1. **Solanum nigrum** (Black Nightshade) (Codwarth Du). White Hart cross roads, Dale road, SM8917 1261, S.B. Evans, 4th Aug 2013, several plants in the road side of a newly rebuilt double field gateway into barley; (+) Llys-y-fran Country Park, SN0392 2451, S.B. Evans, 7th Sep 2013, patches of arable weeds/ruderal plants in an otherwise mown grassland slope. Presumably topsoil/subsoil had been spread here a year or so ago. *Viola arvensis* was also present - first hectad record after 1970.
- +‡110/8.7.© **Solanum tuberosum** (Potato) (Taten). St. Marys Churchyard, Roch, SM881 211, S.B. Evans, 22nd Jun 2013.
- +‡110/9.1. **Datura stramonium** (Thorn-apple) (Afal Dreiniog). Parc-y-bont, New Buildings, Llanhowell, SM8136 2875, J. Etherington, 2001, a single plant appeared on the edge of a field behind the garden. The ground had previously been disturbed during the construction of a stock fence; (+) Artramont Arms, Croesgoch, SM8284 3026, T. Evans, det.J. Etherington, 2013, garden of public house.
- +116/04.1. **Symphytum officinale** (Common Comfrey) (Cyfardwff). Sageston Airfield, SN0531 0279, S.B. & A.E. Evans, 22nd Sep 2013, spoil bank on runway of disused airfield.
- +‡116/06.4. **Anchusa arvensis** (Bugloss) (Llysiau'r-gwrid y Tir âr). Sageston Airfield, SN0531 0279, S.B. & A.E. Evans, 22nd Sep 2013, spoil bank on runway of disused airfield.

- +‡116/09.1. **Borago officinalis** (Borage) (Tafod yr Ych). Poppit, SN1561 4835, S.B. & A.E. Evans, 12th Oct 2013, growing in disturbed sandy ground either side of drive to new house to the rear of the dunes.
- +118/01.5×6. **Stachys ×ambigua** (Hybrid Woundwort) (Briwllys Croesryw). East side of Llys-y-fran Reservoir, SN04007 25941, S.B. Evans, 10th Sep 2013, several plants at the very low cliff lip of the winter/bank-full water level where the lake shore shingle adjoins a mown meadow. It was also at SN04038 26046.
- +‡124/07.1. **Antirrhinum majus** (Snapdragon) (Trwyn y Llo). Felindre Farchog, SN1006 3904, S.B. Evans, 16th Aug 2013, a few plants had selfsown into the paving at the front of the terraced houses on the south side of the A487; (+) Ffynnonau, Newchapel, SN24247 38592, S.B. Evans, 12th May 2013, growing on a 3-4 feet high front balustraded lime mortared slate wall with wide flagged promenading area behind.
- +‡124/08.2. **Chaenorhinum minus** (Small Toadflax) (Trwyn-y-llo Bach). Yerboston, Jeffreyton, SN057 087, C. Shellswell, 13th Jul 2013, field ploughed in spring 2013 and sown with barley.
- +‡124/16.20. **Veronica polita** (Grey Field-speedwell) (Rhwyddlwyn-y-maes Llwyd). Bottom of Horn's Lane, Haverfordwest, SM9514 1543, S.B. & A.E. Evans, 5th Sep 2013, ruderal.
- +‡129/7.2.© **Lobelia erinus** (Garden Lobelia) (Bidoglys yr Ardd). Milford Docks, Milford Haven, SM90149 05848, S.B & A.E. Evans & M. & G. Davies, 5th Jul 2013, two plants had selfsown into a crevice on the concrete quay wall edge. There was a flower basket rack not far away; (+) Hole in the Wall, Haverfordwest, SM95415 15751, S.B. Evans, 28th Jul 2013, Lobelia erinus and Eschscholzia californica growing in crevices between modern paving bricks at the foot of shop walls.
- +130/6.03. **Galium uliginosum** (Fen Bedstraw) (Briwydd y Ffig). New Holmus, Little Newcastle, SM96852 28876, S.B. Evans, 10th Jul 2013, growing at the interface between wet heath/Molinia caerulea tussocks and fen.
- +‡131/5.1. **Leycesteria formosa** (Himalayan Honeysuckle) (Bachgen Llwm). Old Fountain, Caldey, SS1411 9636, S.B & A.E. Evans & M. Evans, 4th Sep 2013, Leycesteria had seeded into the limestone pavement segments of the Fountain ruins.
- +133/1.1. **Valerianella locusta** (Common Cornsalad) (Gwylaeth yr Oen). Walwyn's Castle Churchyard, SM872 112, S.B. Evans, 18th Apr 2013, all the churchyard had been mown very short. Old headstones, apart from one or two, had been cleared/moved to the edge years ago; (+) Entrance to housing estate, Upper Solva, SM8002 2455, S.B. & A.E. Evans, 22nd Jun 2013, on pavement edge.
- +‡133/1.2. **Valerianella carinata** (Keeled-fruited Cornsalad) (Gwylaeth-yr-oen Ffrwythau Rhychog). Llys-y-fran Reservoir Centre Buildings, SN0402 2442, S.B & A.E. Evans & M. Evans, 3rd Jun 2013, garden borders; (+) Roadside, St. Dogmaels, SN1634 4671, S.B. Evans, 29th May 2013, growing on the west side of the B4546.
- *133/1.5.© **Valerianella eriocarpa** (Hairy-fruited Cornsalad) (Gwylaeth-yr-oen Ffrwythau Gwlanog). Entrance to track to Great Castle Head, Sandy Haven. There had been one possible earlier record from SM992 387 in a coastal cornfield east of Fishguard in July 1975 but there was no supporting specimen., SM8468 0721, J. Warr, det.J. Warr & S.B. Evans, 9th Jun 2013, 200 -300+ plants were counted on 14th July 2013 in the unsprayed corner of a spring wheat crop. The stony Old Red Sandstone ground had been ploughed

- but only partly sown. A further 21 plants were in another corner at SM84732 06881 where first found by Jane Warr on 28th Jun 2013.
- +134/3.1. **Knautia arvensis** (Field Scabious) (Clafrllys y Maes). Clarboston Road Signal Box, Clarboston Road, SN0121 2112, S.B. & A.E. Evans, 3rd Oct 2013, *Knautia arvensis* in flower just to the west of Clarboston Road signal box in relatively open ground on the north side of the track to Fishguard Harbour - seen from a slow train.
- +135/28.02.6. **Hieracium umbellatum** (Umbellate Hawkweed) (Heboglys Culddail). Ysgol Hill, Maenclochog, SN0767 2844, S.B. & A.E. Evans, 26th Jun 2013, roadside hedgebank with *Vaccinium myrtillus*, *Calluna vulgaris* and *Deschampsia flexuosa*.
- +‡135/43.4. **Erigeron karvinskianus** (Mexican Fleabane) (Amrhydlwyd y Cerrig). Glandy, Dinas Cross, SM9999 3790, S.B. Evans, 21st Sep 2013, seeded into and flowering on the tarmac edge of the yard at Glandy.
- +‡135/59.1. **Matricaria chamomilla** (Scented Mayweed) (Amranwen Bêr). Gupton Farm, Castlemartin, SR8959 9936, C. Shellswell, 9th Jul 2013, the field was ploughed in May and sown with maize; (+) South-west side of Llys-y-fran Reservoir, SN02719 24731, S.B. & A.E. Evans, 14th Sep 2013, a *Matricaria chamomilla* plant by the rough vehicle track around the reservoir. There was another on the same track at SN02855 24747. Presumably both had been derived from seed carried by the Country Park ranger's vehicle tyres?
- +135/62.12. **Senecio erucifolius** (Hoary Ragwort) (Creulys Lwyd). Brownslade Burrows, Castlemartin Range, SR89679 98530, S.B. Evans, 17th Apr 2013, wet channels in the extensive sloping floor of the old sand quarry. The small distinctive rosettes of *Senecio erucifolius* were on the dry sandy sides of the channel.
- +135/81.2. **Bidens tripartita** (Trifid Bur-marigold) (Graban Teiran). East side of Llys-y-fran Reservoir, SN04022 26003, S.B. Evans, 10th Sep 2013, huge stands of flowering *Bidens tripartita* were growing on the mid to upper shore. The shoreline had dropped by 5-6 metres following the dry summer. Smaller numbers were also elsewhere round the reservoir.
- +©135/GUI.ab. **Guizotia abyssinica** (Niger) (Guizotia). Jordanston Mountain, Redberth, SN08991 03585, M.D. Sutton, Sep 2013, vegetable bed and turf roof of wood-store,.
- +‡138/4.2. **Elodea nuttallii** (Nuttall's Waterweed) (Ffugalaw Nuttall). Small reservoir at Great Castle, Sandy Haven, SM8461 0674, S.B. & A.E. Evans, 14th Jul 2013, farm irrigation reservoir.
- +142/1.03. **Potamogeton coloratus** (Fen Pondweed) (Dyfrllys y Gors Galchog). From old sand quarry floors, Brownslade Burrows, Castlemartin Range, SR90032 98105, S.B. Evans, S. & A. Coker, 17th Apr 2013, growing in the deeper sumps of a winter and wet weather channel through the dunes. It was also in pools at SR90089 98135 and SR90044 98138 in pools dug in the floor of the old sand quarry.
- +‡147/2.1. **Lysichiton americanus** (American Skunk-cabbage) (Pidyn-y-gog Americanaidd). North of Moor Cottage, Houghton, SM97785 07411, N. Lee, det.S.B. Evans, 21st Apr 2013, a single flowering plant on wet bank of stream shaded by deciduous woodland.
- +‡148/2.4. **Lemna minuta** (Least Duckweed) (Llinad Bach). Castlebeach Wood, SM8129 0501, P.R. Green, S.B. Evans & A. Jones, 12th Mar 2013, on wet organic matter of valley floor amongst *Salix* just below a farm irrigation reservoir.

- +153/24.4. **Glyceria notata** (Plicate Sweet-grass) (Melyswellt Plygedig). Gupton Farm, Castlemartin, SR89621 98833, S.B. Evans, 8th Jul 2013, growing in a cattle trampled/tractor crossing point of a small watercourse just below its source in calcareous sand.
- +†153/28.3. **Avena fatua** (Wild-oat) (Ceirchen Wylt). Yerboston, Jeffreyston, SN063 096, C. Shellswell, 13th Jul 2013, in several fields ploughed in autumn 2012 and sown with oil-seed rape. It was also in fields of spring barley, winter wheat and stubble turnips; (+) Llys-y-fran Country Park, SN0392 2451, S.B. Evans, 7th Sep 2013, patches of arable weeds/ruderal plants in an otherwise mown grassland slope. Presumably topsoil/subsoil had been spread here a year or so ago; (+) Pen-y-bont, Newport, SN0610 3930, S.B. & A.E. Evans, 6th Sep 2013, field margins of barley stubble.
- +†153/28.5. © **Avena sativa** (Oat) (Ceirchen). Good Hope Farm, East of Strumble Head, SM91568 40547, S.B. & A.E. Evans, 13th Jul 2013, farm gateway into permanent pasture.
- +†153/68.1. © **Echinochloa crus-galli** (Cockspur) (Cibogwellt Rhydd). Haverfordwest, SM95503 15670, S.B. & A.E. Evans, 2nd Oct 2013, one plant near steps down from the pavement of the New Bridge to the old quay of the Western Cleddau. Another single plant was elsewhere in Haverfordwest at the rear of the pavement in Market Street SM95285 15427.
- +†158/20.3. **Hyacinthoides hispanica** (Spanish Bluebell) (Clychau'r-gog Sbaenaid). St. Marys Churchyard, Roch, SM881 211, S.B. Evans, 22nd Jun 2013, nearly all the churchyard had been cut short apart from the shady margins.
- +162/20.2. **Orchis mascula** (Early-purple Orchid) (Tegeirian Coch y Gwanwyn). Siver, Cliffs west of St Bride's Haven, SM79473 11195, J. Jackson & N. Lee, 18th May 2013, a single plant without spotted leaves on a south facing exposed cliff top grassy bank

CARDIGAN, v.c.46 (comm. S. P. Chambers)

- +005/2.1. **Botrychium lunaria** (Moonwort) (Lloer-redynen). Grassy wall top, Cwmsymlog leadmine, SN702 838, A.O. Chater, 25th May 2013, several plants.
- +017/1.1×2. **Polystichum ×bicknellii**. Under trees on riverbank, N bank of the Afon Teifi, E of Llandysul, SN428 418, S.P. Chambers, conf. S.P. Chambers, August 2013, 5th May 2013, one plant in mixed colony of c.5 *P. aculeatum* and c. 6 *P. setiferum*.
- +†030/1.5.a. **Papaver dubium subsp. dubium** (Long-headed Poppy). ©Dumped rubble on leadmine, Frongoch mine, SN722 744, M.D. Sutton, 14th Aug 2013, on rubble imported from Aberystwyth as part of 'remediation scheme'.
- +†043/1.08. **Chenopodium polyspermum** (Many-seeded Goosefoot) (Troed-yr-ŵydd Amlhadog). ©Dumped rubble on leadmine, Frongoch mine, SN722 744, M.D. Sutton, 14th Aug 2013, on rubble imported from Aberystwyth as part of 'remediation scheme'.
- +043/3.07. **Atriplex patula** (Common Orache) (Llygwyn Culddail). ©Dumped rubble on leadmine, Frongoch mine, SN722 744, M.D. Sutton, 14th Aug 2013, on rubble imported from Aberystwyth as part of 'remediation scheme'.
- +046/10.7. **Sagina apetala** (Annual Pearlwort) (Corwlyddyn Unflwydd). Mortar rubble on forestry extraction track, Garn Wood, SW of Rhos-y-garth, SN629 717, S.P. Chambers, 12th Oct 2013, five plants.

- +†047/4.6. **Polygonum rurivagum** (Cornfield Knotgrass) (Canclwm y Tir Âr). Muck heap at field edge, Dolgoch organic farm, Brongest, SN317 451, S.P. Chambers, conf. A.O. Chater, 1st Aug 2013, locally abundant on drier flanks of muck heap.
- +051/1.06×07. **Hypericum ×desetangsii** (Des Etangs' St John's-wort) (Eurinllys Des Etangs). ©Potential building site, Adpar, SN305 413, M.D. Sutton, 21st Aug 2013.
- ⊖051/1.08. **Hypericum undulatum** (Wavy St John's-wort) (Eurinllys Tonnog). Damp edge of stone surfaced waterwheel viewing area, Lisburne Mine waterwheel, Pont-rhyd-y-groes, SN738 722, S.P. Chambers, 1st Sep 2013, one plant on made ground, 17.5km from the coast, likely inadvertently introduced as seed in surfacing material from unknown source, **NMW**
- *©060/CUC.pcp. **Cucurbita pepo** (Marrow) (Maro). Muck heap at field edge, Dolgoch organic farm, Brongest, SN317 451, S.P. Chambers, 1st Aug 2013, one plant, unopened flower buds dissected for i.d.
- +‡062/11.4. **Barbarea verna** (American Winter-cress) (Berwr-y-gaeaf cynnar). Railway ballast, Capel Bangor Vale of Rheidol railway station, SN648 797, S.P. Chambers & H.F. Clow, det.S.P. Chambers, 15th May 2013, solitary plant.
- +†062/42.1.a. **Raphanus raphanistrum subsp. raphanistrum** (Wild Radish) (Rhuddygl Gwyllt). Muck heap at field edge, Dolgoch organic farm, Brongest, SN317 451, A.O. Chater, 1st Aug 2013; (+) disturbed soil of field gateway, minor road W of Rhiwarthen, Capel Bangor, SN651 794, S.P. Chambers & H.F. Clow, det.S.P. Chambers, 9th Jul 2013, one plant, white-flowered.
- +‡074/08.1. **Tellima grandiflora** (Fringecups) (Clychau'r Clawdd). Damp roadside verge, N of Llanfair Lodge, E of Llandysul, SN433 417, S.P. Chambers, 5th May 2013, a few clumps on both sides of road; (+) ground used for garden refuse behind houses, Cefn Melindwr, Capel Bangor, SN658 800, S.P. Chambers, 5th Jun 2013, one clump.
- +075/21.05. **Rosa spinosissima [R. pimpinellifolia]** (Burnet Rose) (Rhosyn Bwrned). Verge and hedge frontage, S side of Clarach-Bow Street Road, Clarach, SN605 841, S.P. Chambers, 26th Dec 2013, colony c. 3 x 1m.
- +‡075/32.21. **Cotoneaster horizontalis** (Wall Cotoneaster) (Cotoneaster Asgwrn). Roadside wall, disused Church Hall E of The Cross, Clarach-Bow St road, SN603 841, S.P. Chambers, 26th Dec 2013.
- +‡084/4.4. **Oenothera cambrica** (Small-flowered Evening-primrose) (Melyn-yr-hwyr Mân-floedeuog). ©Dumped rubble on leadmine, Frongoch mine, SN722 744, M.D. Sutton, 14th Aug 2013, on rubble imported from Aberystwyth as part of 'remediation scheme'.
- +107/20.1.© **Aethusa cynapium** (Fool's Parsley) (Geuberllys). Dumped rubble on leadmine, Frongoch mine, SN722 744, M.D. Sutton, 14th Aug 2013, on rubble imported from Aberystwyth as part of 'remediation scheme'.
- +‡110/7.1.© **Solanum lycopersicum** (Tomato) (Tomato). Muck heap at field edge, Dolgoch organic farm, Brongest, SN317 451, A.O. Chater & S.P. Chambers, 1st Aug 2013, several plants.
- +‡110/8.3.© **Solanum physalifolium** (Green Nightshade) (Codwarth Gwyrdd). ‡Sandy verge below metal security fence, Glanyrafon Industrial Estate, near Llanbadarn Fawr, SN611 802, S.P. Chambers & H.F. Clow, det.S.P. Chambers, 13th Oct 2013, c.10 plants along strip c. 15 x 0.5m, **NMW**

- +116/02.1. **Echium vulgare** (Viper's-bugloss) (Gwiberlys). Rough ground, quayside, Aberystwyth harbour, SN580 809, A.O. Chater, 21st Jul 2013, c. 8 plants.
- +†124/16.19. **Veronica agrestis** (Green Field-speedwell) (Rhwyddlwyn-y-maes Gwyrdd). ©Dumped rubble on leadmine, Frongoch mine, SN722 744, M.D. Sutton, 14th Aug 2103, on rubble imported from Aberystwyth as part of 'remediation scheme'.
- 124/18.1. **Sibthorpia europaea** (Cornish Moneywort) (Deilen Gron Cernyw). Marshy grassland, S of Dinas Cerdin, SE of Ffostrasol, SN385 467, P.R. Green, 27th Apr 2013, patch, c. 80 x 100cm, under heap of branches, plus a few small plants amongst rushes. New v.c. site near cluster of historic sites for this Nationally Scarce & Threatened species.
- +†135/11.deb.thu. **Centaurea debeauxii subsp. thullieri**. Grassy road verge, 400m N of Plas Gogerddan, SN626 838, A.O. Chater, 2nd Aug 2013.
- +135/25.07.55. **Taraxacum bracteatum** (Dark-green Dandelion). Garden of Windover, Penyrangor, Aberystwyth, SN581 808, A.O. Chater, det.A.J. Richards, 2014, 5th May 2013, **NMW**
- +135/25.07.58 **Taraxacum cambricum** (Welsh Dandelion). Garden of Windover, Penyrangor, Aberystwyth, SN581 808, A.O. Chater, det.A.J. Richards, 2014, 5th May 2013, 3rd v.c. collection & 2nd site, **NMW**
- +135/25.07.83. **Taraxacum unguilobum** (Claw-lobed Dandelion). Garden of Windover, Penyrangor, Aberystwyth, SN581 808, A.O. Chater, det.A.J. Richards, 2014, 5th May 2013, **NMW**
- +135/25.08.88. **Taraxacum hamatulium** (Slender Hook-lobed Dandelion). Garden of Windover, Penyrangor, Aberystwyth, SN581 808, A.O. Chater, det.A.J. Richards, 2014, 5th May 3013, **NMW**
- +‡135/25.08.92. **Taraxacum lamprophyllum** (Lustrous-leaved Dandelion). Garden of Windover, Penyrangor, Aberystwyth, SN581 808, A.O. Chater, det.A.J. Richards, 2014, 5th May 2013, **NMW**
- +135/25.09.111. **Taraxacum ancistrolobum** (Few-lobed Dandelion). Garden of Windover, Penyrangor, Aberystwyth, SN581 808, A.O. Chater, det.A.J. Richards, 2014, 5th May 2013, **NMW**
- +135/25.09.121. **Taraxacum cordatum** (Entire-lobed Dandelion). Garden of Windover, Penyrangor, Aberystwyth, SN581 808, A.O. Chater, det.A.J. Richards, 2014, 5th May 2013, **NMW**
- +135/25.09.172. **Taraxacum oblongatum** (Oblong-leaved Dandelion). Garden of Windover, Penyrangor, Aberystwyth, SN581 808, A.O. Chater, det.A.J. Richards, 2014, 5th May 2013, **NMW**
- *‡135/25.09.189. **Taraxacum pseudoretroflexum** (Spur-lobed Dandelion). Garden of Windover, Penyrangor, Aberystwyth, SN581 808, A.O. Chater, det.A.J. Richards, 2014, 5th May 2013, **NMW**
- +135/40.4.© **Solidago gigantea** (Early Goldenrod) (Eurwialen Gynnar). Potential building site, Adpar, SN305 413, M.D. Sutton, 21st Aug 2103.
- +†135/50.1. **Artemisia vulgaris** (Mugwort) (Y Feidiog Lwyd). ©Dumped rubble on leadmine, Frongoch mine, SN722 744, M.D. Sutton, 14th Aug 2013, on rubble imported from Aberystwyth as part of 'remediation scheme'.

- +©135/55.aus. **Anthemis austriaca** (Austrian Chamomile). Edge of new road, 100m W of Theatr Mwldan, Cardigan, SN177 465, A.O. Chater, 18th Jul 2013, 4th v.c. record.
- ‡135/62.03. **Senecio inaequidens** (Narrow-leaved Ragwort) (Creulys Gulddail). Rooftop, CRAFT building, Aberystwyth railway station, SN585 815, S.P. Chambers, 2nd Jul 2013, c. 4 plants, likely originating from seed mix used for the CRAFT 'river on the roof project' (2012) and probable source of the plants seen by P.R.Green in the car park below on 28 May 2013; (+) corner of parking area, railway station, Aberystwyth, SN585 815, P.R. Green, 28th May 2013, two plants. 2nd v.c. record.
- 135/70.1. **Tussilago farfara** (Colt's-foot) (Carn yr Ebol). Edge of forestry track, Bryn Du, SE of Tregaron, SN697 572, S.P. Chambers, 24th Jul 2013, 1st post-1970 record for the hectad.
- +151/1.06. **Juncus foliosus** (Leafy Rush) (Brwynen Ddeiliog). Flushed runnels in marshy grassland, SW flank of Tal-y-fan, Llanafan, SN686 726, S.P. Chambers, 29th Sep 2013.
- 152/8.2. **Isolepis cernua** (Slender Club-rush) (Clwbrwynen Fain). Poached flush in marshy grassland, SW flank of Tal-y-fan, Llanafan, SN686 726, S.P. Chambers, 29th Sep 2013, locally abundant (>c.40 tufts). At 12.7km from the coast the farthest inland known extant population, NMW.
- +‡153/28.4.a.© **Avena sterilis subsp. ludoviciana** (Winter Wild-oat). Muck heap at field edge, Dolgoch organic farm, Brongest, SN317 451, A.O. Chater, 1st Aug 2013, one plant.
- +‡153/47.6. **Alopecurus myosuroides** (Black-grass) (Cynffonwellt Du). Muck heap at field edge, Dolgoch organic farm, Brongest, SN317 451, A.O. Chater, 1st Aug 2013, frequent.
- +‡153/50.7. **Bromus secalinus** (Rye Brome) (Pawrwellt Bach). ©Muck heap at field edge, Dolgoch organic farm, Brongest, SN317 451, A.O. Chater, 1st Aug 2013, two plants.
- +‡153/PAN.mil.© **Panicum miliaceum** (Common Millet) (Miled). Muck heap at field edge, Dolgoch organic farm, Brongest, SN317 451, S.P. Chambers, 1st Aug 2013, three plants.
- +‡158/20.3. **Hyacinthoides hispanica** (Spanish Bluebell) (Clychau'r-gog Sbaenaidd). Grassland of chapel graveyard, Capel Pantdefaid, Pren-gwyn, SN425 442, S.P. Chambers, 26th May 2013

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

- ⊖001/4.1. **Diphasiastrum alpinum** (Alpine Clubmoss) (Cnwp-fwsogl Alpaidd). Pistyll y Llyn, Llyfnant, SN758 937, P. & G. Foulkes, 1st Jun 2013, prolific.
- *003/1.1×2. **Isoetes echinospora** × **lacustris**. Lake shore near outflow, Llyn Gwyddior, SH937 074, A.K. Thorne, det.F.J. Rumsey, 3rd Aug 2013, single plant washed up on E shore near outflow. 'only a few probably abortive megaspores, would have been nice to see more' (FJL); (*) lakeside, Llyn Du, SO00 96, G. Foulkes & Montgomeryshire Flora Group, det.F.J. Rumsey, Jul 2013, lakeside, many plants washed up along shore especially along north and south shores in the east. 'megaspores empty and rather collapsed, too small for lacustris, surface ornamentation not that of echinospora' (FJL).

- +016/4.1. **Gymnocarpium dryopteris** (Oak Fern) (Rhedyneyn Dridarn). Lan Fawr, SO29 97, A.K. & W.I.J. Thorne, 12th Jul 2013, very small stand at base of rock face.
- ⊖017/3.01. **Dryopteris oreades** (Mountain Male-fern) (Marchredynen y Mynydd). Corndon, SO3108 9684, M. Godfrey, Aug 2013, on scree, east side of hill; (⊖) Corndon, SO3115 9686, M. Godfrey, 24th Sep 2013, on scree, east side of hill.
- ⊖017/3.03b. **Dryopteris cambrensis**. Corndon, SO31 96, M. Godfrey, 24th Sep 2013, scree and rocks.
- *017/3.10. **Dryopteris expansa** (Northern Buckler-fern) (Marchredynen y Gogledd). Corndon, SO3110 9685, M. Godfrey, det.F.J. Rumsey, 24th Sep 2013, on scree, east side of hill.
- ⊖017/3.c. **Dryopteris borreii**. Corndon Hill, SO31 96, R. Meade, det.M. Godfrey, 24th Sep 2013, scree and rocks.
- ⊖036/2.1. **Parietaria judaica** (Pellitory-of-the-wall) (Paladr y Wal). Dolforwyn Castle, SO15 95, A.K. Thorne, 21st May 2013, very localised on castle walls.
- +046/16.1. † **Spergularia arvensis** (Corn Spurrey) (Troellig yr ŷd). Nant Nadroedd Fawr, SH9581 2560, A.K. & W.I.J. Thorne, 27th Jul 2013, road edge, 6 plants; (+) Bryn Mawr, SJ246 196, R.A. Dawes & S. Swindells, 27th Jun 2013, bare ground by riverside.
- +046/17.4. **Spergularia rubra** (Sand Spurrey) (Troellig Arfor Coch). Welshpool, SJ22 07, Montgomeryshire Flora Group, 29th Aug 2013, waste ground and road verges.
- +046/20.09×01. **Silene ×hampeana** ([Pink Champion]). Dolforwyn Castle, SO15 95, A.K. Thorne, 21st May 2013, track to castle.
- *047/8.03.a. **Rumex acetosa subsp. acetosa** (Common Sorrel). Nant y Eira mine, SN8267 8730, P.R. Green, 3rd May 2013, wall of mine building.
- +057/1.05. **Viola reichenbachiana** (Early Dog-violet) (Fioled y Coed). Trewern, SJ2632 1108, A.K. Thorne, 15th Apr 2013, large stand at base of railway bridge.
- *061/2.11.b. **Salix cinerea subsp. oleifolia** (Rusty Willow). Forest track, Hafren Forest, SN83 86, P.R. Green, 3rd May 2013, walked along forest tracks.
- +†062/28.1. **Thlaspi arvense** (Field Penny-cress) (Codywasg y Maes). Bryn Mawr, SJ246 196, R.A. Dawes & S. Swindells, 27th Jun 2013, bare ground by riverside.
- +†062/35.1. **Sinapis arvensis** (Charlock) (Mwstard Gwyllt). Bryn Mawr, SJ247 197, R.A. Dawes & S. Swindells, 11th Jul 2013, disturbed ground by river; (+) Bryn Mawr, SJ258 185, R.A. Dawes & S. Swindells, 16th Aug 2013, 1 plant at edge of road.
- +073/5.11. **Sedum forsterianum** (Rock Stonecrop) (Briweg Gymreig). Cwm Rhiwarth, SJ01 29, A.K. Thorne, 22nd Jul 2013, tiny stand, side ravine with some spoil.
- +‡074/08.1. **Tellima grandiflora** (Fringecups) (Clychau'r Clawdd). Penygarneidd (SW of), SJ080 219, R.A. Dawes & S. Swindells, 21st Jun 2013, gully in forestry, dumped with garden rubble.
- +075/21.15. **Rosa tomentosa** (Harsh Downy-rose) (Rhosyn Gwlanog). Llanymynech Hill, SJ269 219, R.A. Dawes, det.A.K. Thorne, Sep 2013.
- +075/21.16 **Rosa sherardii** (Sherard's Downy-rose) (Rhosyn Sherard). S of Llangurig, SN90 77, A.K. Thorne, 12th Aug 2013, roadside; (+) Ffridd Fawr, SH95 04, A.K. & W.I.J. Thorne, 3rd Aug 2013.

- +075/21.17. **Rosa mollis** (Soft Downy-rose) (Rhosyn Blewog). Clatter, SO00 95, A.K. Thorne, 3rd Jul 2013, laneside verge; (+) Cwm Rhiwarth, SJ01 29, A.K. Thorne, 22nd Jul 2013, ravine sides and waterfall, main stream.
- +118/01.5×6. **Stachys ×ambigua** (Hybrid Woundwort) (Briwlys Croesryw). Ffridd Fawr, SH95 04, A.K. & W.I.J. Thorne, 3rd Aug 2013, river margin; (+) Garthmyl (Pump Lane), SO1752 9878, E. Beare, 2013, in lane hedge.
- ⊗‡124/01.02. **Verbascum virgatum** (Twiggy Mullein) (Pannog Fain). Welshpool, SJ22 07, Montgomeryshire Flora Group, 29th Aug 2013, occasional, on waste ground and road verges, not seen since 1964.
- *124/16.01.a. **Veronica serpyllifolia subsp. serpyllifolia**. Graig Goch, SN86 91, P.R. Green, 3rd May 2013, walked about both sides of gorge and a bit a surrounding moorland.
- ⊖124/20.05.b. **Euphrasia arctica subsp. borealis**. Carno (NE of), SN9847 9665, Montgomery Flora Group, det.A.K. Thorne, 3rd Jul 2013, meadow immediately east of *Vicia orobus* road verge site.
- +130/3.1. **Sherardia arvensis** (Field Madder) (Mandon Las yr ŷd). Bryn Mawr, SJ251 193, R.A. Dawes & S. Swindells, 20th May 2013, a few flowering plants; dry grassland.
- +135/02.1. **Carlina vulgaris** (Carline Thistle) (Ysgallen Siarl). River valley, Rhiwagor Valley, SH95 24, A.K. & W.I.J. Thorne, 27th Jul 2013, river valley (Afon Eiddew).
- ⊖135/09.1. **Serratula tinctoria** (Saw-wort) (Dant y Pysgodyn). Carno (NE of), SN9847 9665, Montgomery Flora Group, det.A.K. Thorne, Montgomeryshire Flora Group, 3rd Jul 2013, steep laneside verge, four plants with *Vicia orobus*, *Stachys officinalis*, *Potentilla erecta*, *Succisa pratensis*. 1st county record for 22 years.
- +135/16.3. **Leontodon saxatilis** (Lesser Hawkbit) (Peradyl Bach). Rhiwlwyfen, Forge, SN760 983, T. Stretton, det.A.K. Thorne, 29th Jul 2013, acid grassland, wet flush.
- +135/28.02.6. **Hieracium umbellatum** (Umbellate Hawkweed) (Heboglys Culddail). Gwaun Llwyn-Gwyn SSSI, Llangurig, SN903 797, A.K. Thorne, 12th Aug 2013, riverside field; (+) Dernol, SN91 75, A.K. Thorne, 12th Aug 2013, laneside; (+) S of Llangurig, SN91 77, A.K. Thorne, 12th Aug 2013, laneside; (+) Caeau Clochfaen Isaf SSSI, Llangurig, SN910 779, A.K. Thorne, 12th Aug 2013, field (meadow and scrub) on east of lane; (+) Caeau Clochfaen Isaf SSSI, Llangurig, SN911 782, A.K. Thorne, 12th Aug 2013, central GR for Caeau Clochfaen Isaf SSSI, detached north field; (+) Coedydd y Beili, Malgwyn a Cribin SSSI, Llangurig, SN90 83, A.K. Thorne, 12th Aug 2013, laneside through steep Oak woodland.
- *135/28.04.24. **Hieracium scabrisetum** (Scabrous Hawkweed). On rocks in long waterfall, L.Vyrnwy, Afon Eiddew, SH953 246, A.K. Thorne, det.D. McCosh, 27th Jul 2013, on rocks in long waterfall (approx 1/2 way up).
- *135/28.04.29. **Hieracium placherophylloides** (Purplish-leaved Hawkweed). On rocks in long waterfall, L.Vyrnwy, Afon Eiddew, SH953 246, A.K. Thorne, det.D. McCosh, 27th Jul 2013, on rocks in long waterfall (approx. one third up); (*) by waterfall, Cwm Rhiwarth, SJ0153 2964, A.K. Thorne, det.D. McCosh, 22nd Jul 2013, stand by waterfall.
- *135/28.10.sil. **Hieracium siluriense** (Silurian Hawkweed). On rocks in long waterfall, L.Vyrnwy, Afon Eiddew, SH953 246, A.K. Thorne, det.D. McCosh, 27th Jul 2013, on rocks in long waterfall (near top).

- +‡135/44.1. **Conyza canadensis** (Canadian Fleabane) (Amrhydlwyd Canada). Penygarnedd (SW of), SJ07 21, R.A. Dawes & S. Swindells, 21st Jun 2013, forestry.
- *‡135/62.03. **Senecio inaequidens** (Narrow-leaved Ragwort) (Creulys Gulddail). By track, Corndon, SO302 974, Montgomery Flora Group, Aug 2013, by track, single plant.
- +138/2.1.‡ **Stratiotes aloides** (Water-soldier) (Milwr y Dŵr). ©Montgomery Canal, Pool Quay, SJ25 12, A.K. & W.I.J. Thorne, Aug 2013; (+) ©Montgomery Canal, SJ26 12, A.K. & W.I.J. Thorne, Aug 2013, plants floating in lock, recent vegetation clearance near lock.
- +142/1.15. **Potamogeton bertholdii** (Small Pondweed) (Dyfrllys Bach). Cefn-llyfnog, Bwlch-y-cibau, SJ198 185, R.A. Dawes, det.A.K. Thorne, 13th Aug 2013, pools by dog graves.
- ⊖152/16.46.a. **Carex lepidocarpa** (Long-stalked Yellow-sedge). Base rich flush, Upper Wye Valley, SN858 815, A.K. Thorne, det.A.O. Chater, 8th Aug 2012, base rich flush with *Carex hostiana*; (⊖) base rich flush, Llangurig (N of), SN91 82, A.K. Thorne, det.A.O. Chater, Jul 2013, base rich flush; (⊖) in small flush above river, L.Vyrnwy, Afon Eiddew, SH953 246, A.K. Thorne, det.A.O. Chater, 27th Jul 2013, in small flush above river.
- +‡153/14.3. **Vulpia myuros** (Rat's-tail Fescue) (Peisgwelld y Fagwyr). Bryn Mawr, SJ254 197, R.A. Dawes & S. Swindells, 11th Jul 2013, many plants with *Lolium perenne*. Spoil in canal & tow path.
- +153/18.04. **Poa humilis** (Spreading Meadow-grass) (Gweunwelld Ymledol). Dolforwyn Castle, SO15 95, A.K. Thorne, 21st May 2013, castle.
- ⊖153/25.1. **Melica nutans** (Mountain Melick) (Meligwelld Pendrwm). Rhiwargor Valley, SH9532 2465, A.K. & W.I.J. Thorne, 27th Jul 2013, 1 plant in rock crevice in overhang near upper end of long waterfall (N side). New site; (⊖) Pistyll Blaen y Cwm, SJ007 276, R. Rowe, Jul 2013, 1 clump of several plants in overhung place by waterfall.
- ⊖153/50.3. **Bromus racemosus** (Smooth Brome) (Pawrwellt Llyfn). Meadow, Carno (NE of), SN9847 9665, Montgomery Flora Group, det.A.K. Thorne, 3rd Jul 2013, meadow immediately east of *Vicia orobus* road verge site.
- +‡158/33.5. **Narcissus pseudonarcissus** (Gweler yr Isrywogaethau yn Unig). Bettws Cedewain Church, SO1227 9683, T. Stretton, Apr 2013, plentiful in churchyard, probably planted in the distant past but likely to be native to the area.
- +162/06.2. **Neottia cordata** (Lesser Twayblade) (Caineir ian Bach). Moorland, Moelfre, SN856 934, P. & G. Foulkes, 21st Jun 2013, SN8559198388 (1 plant) and SN 8560199346 (2 plants); (+) Moelfre, SN85 98, P. & G. Foulkes, 21st Jun 2013, moorland

MERIONETH, v.c.48 (comm. S.Stille)

- +c1-1-vir **Chara virgata** (Delicate Stonewort). Settling tanks, Tonfanau Quarry, SH57 04, Merioneth Naturalists/Grwp Natur Meirionnydd, det.S.E. Stille, 25th Apr 2013.

- 001/3.1. **Lycopodium clavatum** (Stag's-horn Clubmoss) (Cnwp-fwsogl Corn Carw). Rhobell Fawr (SH72X), SH7944 2528, S. Thomas, A. Jones & J. Langton, 29th May 2013, 1st located record for hectad.
- 015/2.1. **Asplenium adiantum-nigrum** (Black Spleenwort) (Duegredynen Goesddu). Cwm Dyniewyd, SH89 19, J. Hughes, 12th Aug 2013.
- +017/1.1. **Polystichum setiferum** (Soft Shield-fern) (Gwrychredynen Feddal). Light woodland, Pant y Ceubren, SH88 29, S.E. Stille, P. Spencer-Vellacott & J. Langton, 31st May 2013.
- +‡020/3.1. **Tsuga heterophylla** (Western Hemlock-spruce) (Sbriwsen-Hemlog y Gorllewin). ©Coed y Parc, SH73 16, Merioneth Naturalists/Grwp Natur Meirionnydd, conf. self-sown from adjacent plantation, 28th Feb 2013; (+) Caerynwch,estate, SH7617, SH76 17, S.E. Stille & M. Rand, 28th May 2013.
- +‡020/7.3.© **Pinus contorta** (Lodgepole Pine) (Pinwydden Gamfrig). Dunes, Morfa Harlech NNR, SH57 31, P.R. Green, J. Langton & J. Warner, 30th May 2013, self-sown; (+) Tan y Grisiau, SH68 45, Merioneth Naturalists/Grwp Natur Meirionnydd, 25th Jul 2013.
- *‡022/1.1. **Araucaria araucana** (Monkey-puzzle) (Cas Gan Fwnci). Derelict garden, Llyn Cwmorthin, SH679 461, Merioneth Naturalists/Grwp Natur Meirionnydd, 25th Jul 2013, in derelict garden but also elsewhere in the area so apparently self-seeding.
- 026/2.1. **Nuphar lutea** (Yellow Water-lily) (Lili'r-dŵr Felen). Lake, Hafod y Llyn, SH598 293, M.W. Rand & H. Colls, 30th May 2013.
- *‡028/12.3.© **Clematis tangutica** (Orange-peel Clematis) (Barf-yr-hen-wr Oren). Estuary wall, Penmaenpool, SH69 18, H. Colls, 31st May 2013.
- +028/13.23. **Ranunculus aquatilis** (Common Water-crowfoot) (Crafanc-y-frân y Dŵr). Lake, Hafod y Llyn, SH599 293, M.W. Rand & H. Colls, 30th May 2013, small quantity.
- +034/2.1.‡ **Humulus lupulus** (Hop) (Hopys). Woodland edge, Byrgoed, SH99 37, S.E. Stille, 8th Jun 2013.
- +‡039/4.7. **Quercus rubra** (Red Oak) (Derwen Goch). Traeth Glaslyn, SH53Z, Merioneth Naturalists/Grwp Natur Meirionnydd, 22nd Aug 2013; (+) Pont Fronwydd, SH83 24, H. Colls, P.R. Green, T. Mundell & M. Rand, 29th May 2013.
- +043/1.15 **Chenopodium album** (Fat-hen) (Troed-yr-wydd Gwyn). Nant y Mynach, SH64 04, Merioneth Naturalists/Grwp Natur Meirionnydd, 23rd May 2013.
- 046/05.1.b. **Stellaria nemorum subsp. montana** (Serenllys-y-coed Cymreig). Southern roadside ditch just above track, Arthog Woods, SH644 144, S. Thomas, P.R. Green & A. Jones, 29th May 2013, one patch; Coed Cynan, SH763 193, S. Thomas, A. Jones & J. Langton, 29th May 2013, one patch of 200-300 shoots.
- +046/17.4. **Spergularia rubra** (Sand Spurrey) (Troellig Arfor Coch). Rough track, Tan y Grisiau, SH68 45, Merioneth Naturalists/Grwp Natur Meirionnydd, 25th Jul 2013.
- ⊖046/20.05. **Silene uniflora** (Sea Champion) (Gludlys Arfor). Cribin Fach, SH80 15, J.T. Hughes, 20th Jun 2013, a rare inland, upland record for this species.
- ⊖046/25.5. **Dianthus deltooides** (Maiden Pink) (Penigan y Forwyn). ©Pondside, Ffridd Ucha, SH92 33, R. Gwynn, 12th Jul 2013, probable garden throwout.

- +‡047/1.02. **Persicaria campanulata** (Lesser Knotweed) (Y Ganwraidd Fach). ©Egryn Abbey area (SH5920), SH594 201, P. Spencer-Vellacott, J. Warner & J. Langton, 28th May 2013.
- *‡047/5.3. **Fallopia baldschuanica** (Russian-vine) (Clymog Rwsia). Egryn Abbey area, SH594 201, P. Spencer-Vellacott, J. Warner & J. Langton, 28th May 2013.
- +051/1.09. **Hypericum tetrapterum** (Square-stalked St John's-wort) (Eurinllys Pedronglog). Panorama Walk, SH61I, W. McCarthy & G.M. Kay, 28th May 2013.
- +051/1.10. **Hypericum humifusum** (Trailing St John's-wort) (Eurinllys Ymdaenol). Nantmor, SH59 46, Merioneth Naturalists/Grwp Natur Meirionnydd, 20th Jun 2013.
- †053/1.7. **Malva neglecta** (Dwarf Mallow) (Corhocysen). Llanaber, SH61E, R. Cope, 23rd Aug 2012, located update for hectad.
- +057/1.12. **Viola tricolor** (Wild Pansy) (Trilliw). Brithdir new road junction, SH758 180, S.P. Chambers, 3rd Sep 2013.
- +061/1.2. **Populus tremula** (Aspen) (Aethnen). Egryn Abbey area, SH59 20, P. Spencer-Vellacott, J. Warner & J. Langton, 28th May 2013.
- ⊖061/1.3.a. **Populus nigra subsp. betulifolia** (a subspecies of Black-poplar). Fairbourne, SH616 129, R. Cope, 6th May 2013.
- *061/1.3×del.Ser. **Populus ×canadensis 'Serotina'** (Black-Italian Poplar) (Poplysen Ddu Groesryw'r Eidal). Llanymawddwy S, SH90 18, J.T. Hughes, 9th Jun 2013.
- +‡062/11.4. **Barbarea verna** (American Winter-cress) (Berwr-y-gaeaf cynnar). ©On dumped soil in lane verge, Hafod y Llyn, SH596 299, M.W. Rand & H. Colls, 30th May 2013, several plants.
- +‡062/17.1. © **Lunaria annua** (Honesty) (Swllt Dyn Tlawd). Panorama Walk, SH626 168, W. McCarthy & G.M. Kay, 28th May 2013.
- +065/13.4. **Vaccinium vitis-idaea** (Cowberry) (Llusen Goch). Summit, Rhobell Fawr (SH72X), SH7870 2569, S. Thomas, A. Jones & J. Langton, 29th May 2013.
- *‡065/8.3. **Gaultheria mucronata** (Prickly Heath) (Gweunlwyn Pigog). ©Road verge, Trem y Mor, SH580 296, M.W. Rand & H. Colls, 30th May 2013, garden escape; (*) ©forest planting, Llwynllwyddyn, SH82P, S.E. Stille, 6th Aug 2013.
- +‡072/2.3. **Ribes nigrum** (Black Currant) (Llwyn Cwrens Duon). Foel Offrwm, SH72K, P.R. Green, S. Thomas & A. Seddon, 28th May 2013; (+) on mound of earth, Pont Fronwydd, SH831 245, H. Colls, R. Cope, P.R. Green, T. Mundell, M. Rand & S.E. Stille, 29th May 2013.
- +†073/5.14. **Sedum album** (White Stonecrop) (Briweg Wen). Moel Ysgyfarnogod, SH64 34, J. Langton, 30th Jul 2013.
- *‡074/03.1. © **Bergenia crassifolia** (Elephant-ears) (Clustiau Eliffant). Traeth Glaslyn, SH53Z, Merioneth Naturalists/Grwp Natur Meirionnydd, 22nd Aug 2013.
- ⊖074/05.15. **Saxifraga granulata** (Meadow Saxifrage) (Tormaen y Gweunydd). Wood on river bank, Llandderfel, SH99 37, D. Roberts, 8th Jun 2013, 1st dated and located record.
- +‡074/08.1. © **Tellima grandiflora** (Fringecups) (Clychau'r Clawdd). Lane verge, Byrgoed, SH99 37, S.E. Stille, 8th Jun 2013.
- +075/19.10.b. **Alchemilla filicaulis subsp. vestita** (Mantell-Fair Flewog). Unimproved grassland, Cefn Rofft, SJ00 49, S.E. Stille, 15th Aug 2013.

- +‡075/19.15. **Alchemilla mollis** (Garden Lady's-mantle) (Mantell-Fair y Gerddi). ©Tan y Grisiau, SH68 46, Merioneth Naturalists/Grwp Natur Meirionnydd, 25th Jul 2013, established in car park, with rubbish.
- +‡075/21.05.06. **Rosa rugosa** (Japanese Rose) (Rhosyn Japan). Morfa Harlech, SH562 351, A.N. Graham & J.E. Graham, 3rd Jul 2013.
- +‡075/22.14. **Prunus laurocerasus** (Cherry Laurel) (Coeden Lawrgeirios). Pant y Ceubren, SH88 29, S.E. Stille, P. Spencer-Vellacott & J. Langton, 31st May 2013.
- +075/27.1. **Malus sylvestris** (Crab Apple) (Coeden Afalau Surion). Hafod y Llyn, SH59 29, M.W. Rand & H. Colls, 30th May 2013.
- +†075/27.2. [**Malus pumila**] = **M. domestica** (Apple) (Coeden Afalau). Egryn Abbey area, sh59 20, P. Spencer-Vellacott, J. Warner & J. Langton, 28th May 2013; (+) Cwm Gila, SH73 02, S.E. Stille, 25th Aug 2013.
- *075/28.hup. **Sorbus glabriuscula** (Hupeh Rowan). Mynydd Rhyd ddu, SJ04N, Merioneth Naturalists/Grwp Natur Meirionnydd, 26th Sep 2013.
- +‡075/32.34.© **Cotoneaster bullatus** (Hollyberry Cotoneaster) (Cotoneaster Deilgrych). At village hall, Brithdir, SH770 188, A.R.G. Mundell & H. Colls, 28th May 2013.
- +077/14.08.‡ **Vicia tetrasperma** (Smooth Tare) (Ffachysen Lefn). Llanbedr Airfield West, SH52S, S.E. Stille & Caerdeon group, 30th May 2013.
- +077/15.03.mon. **Lathyrus linifolius var. montanus**. Hafod y Llyn, SH59 29, M.W. Rand & H. Colls, 30th May 2013.
- +077/19.15. **Trifolium medium** (Zigzag Clover) (Meillionen Igam-ogam). Llwyn-iarth, SH70 17, H. Colls, R. Cope, P.R. Green, G. Kay & W. McCarthy, 31st May 2013.
- +‡077/22.1.© **Laburnum anagyroides** (Laburnum) (Tresi Aur). Wet wood, Caerynwch,estate, SH7617, SH76 17, S.E. Stille & M. Rand, 28th May 2013.
- ⊖079/2.3. **Myriophyllum spicatum** (Spiked Water-milfoil) (Myrdd-ddail Ysbigog). Small pond, Hafod y Llyn, SH597 294, M.W. Rand & H. Colls, 30th May 2013, locally frequent. Checked on leaf and inflorescence characters.
- ⊖084/1.05.© **Epilobium tetragonum** (Square-stalked Willowherb) (Helyglys Pedronglog). On dumped soil in lane verge, Hafod y Llyn, SH596 299, M.W. Rand & H. Colls, 30th May 2013.
- *‡085/1.2. **Cornus sericea** (Red-osier Dogwood) (Cwyrosyn Cochfrig). Wet woodland, Caerynwch woods, SH764 174, S.E. Stille & M.W. Rand, det.M.W. Rand, 28th May 2013, numerous stems arching and rooting.
- +090/1.1.‡ **Buxus sempervirens** (Box) (Pren Bocs). Derelict garden, Llyn Cwmorthin, SH679 461, Merioneth Naturalists/Grwp Natur Meirionnydd, 25th Jul 2013.
- +103/2.3. **Erodium cicutarium** (Common Stork's-bill) (Pig-y-crëyr). River shingle, River Alwen, SJ04R, S.E. Stille & J. Lees, 2nd Sep 2013.
- ‡107/08.1. **Myrrhis odorata** (Sweet Cicely) (Creithig Bêr). Roadside, Pant y Ceubren, SH88 29, S.E. Stille, P. Spencer-Vellacott & J. Langton, 12 May 2011 and 31 May 2013, 1st hectad record since 1970.
- +107/28.4. **Apium inundatum** (Lesser Marshwort) (Dyfrforonen Fach). Small pond, drawdown zone, Hafod y Llyn, SH5978 2945, M.W. Rand & H. Colls, 30th May 2013, abundant.
- +116/15.01. **Myosotis scorpioides** (Water Forget-me-not) (Sgorpionllys y Gors). Rhobell Fawr, SH72X, S. Thomas, A. Jones & J. Langton, 29th May 2013.

- ⊖116/15.09. **Myosotis ramosissima** (Early Forget-me-not) (Sgorpionllys Cynnar). Dunes, Morfa Harlech NNR, SH56 31, Green, P.R., Langton, J. & Warner, J., 30th May 2013; (⊖) dunes, Morfa Harlech NNR, SH56 32, Green, P.R., Langton, J. & Warner, J., 30th May 2013; (⊖) dunes, Morfa Harlech NNR, SH571 316, Green, P.R., Langton, J. & Warner, J., 30th May 2013.
- +118/23.2×3.‡ **Mentha ×piperita (M. aquatica × M. spicata)** (Peppermint) (Mintys Poeth). ©Llanymawddwy S, SH90 18, J.T. Hughes, 9th Jun 2013.
- +124/21.2. **Odontites vernus** (Red Bartsia) (Gorudd). Roadside verge, Llynllwyddyn, SH82P, S.E. Stille, 6th Aug 2013.
- +‡131/6.2. **Lonicera nitida** (Wilson's Honeysuckle) (Gwyddfif Wilson). Llugwy, SH70A, S.E. Stille, 26th Aug 2012.
- +‡133/1.2. **Valerianella carinata** (Keeled-fruited Cornsalad) (Gwylaeth-yr-oen Ffrwythau Rhychog). Afon-fechan, SH88 28, S.E. Stille, P. Spencer-Vellacott & J. Langton, 31st May 2013.
- ⊖133/2.3. **Valeriana dioica** (Marsh Valerian) (Triaglog y Gors). Marsh, Bryn Halen, SJ04 48, Merioneth Naturalists/Grwp Natur Meirionnydd, det.M. Rand, 26th Sep 2013, **SES**
- +134/1.1. **Dipsacus fullonum** (Wild Teasel) (Cribau'r-pannwr Gwylt). Rhyd Sarn, SH82U, S.E. Stille, 6th Aug 2013.
- +135/02.1. **Carlina vulgaris** (Carline Thistle) (Ysgallen Siarl). Grassy banks, Tonfanau Quarry, SH57 03, Merioneth Naturalists/Grwp Natur Meirionnydd, 25th Apr 2013.
- 135/15.2. **Hypochaeris glabra** (Smooth Cat's-ear) (Melynydd Moel). Short turf adjacent to dunes, Llanbedr Airfield West, SH5641 2516, S.E. Stille & Caerdeon group, 30th May 2013, at least 100 plants over an area of 15 x 15 metres. First hectad record since 1973.
- +135/16.2. **Leontodon hispidus** (Rough Hawkbit) (Peradyl Garw). RAF Llanbedr, SH52T, S.E. Stille & Caerdeon group, 30th May 2013.
- *135/25.04.35. **Taraxacum faeroense** (Faeroes Dandelion). Flush on hillside, Panorama Walk, SH625 171, W. McCarthy & G.M. Kay, det.G.M. Kay, 28th May 2013; (*) grassland on edge of marshy area, Llyn-iarth, SH70 17, H. Colls, R. Cope, P.R. Green, G. Kay & W. McCarthy, det.G.M. Kay, 31st May 2013.
- +‡135/41.3×4.© **Aster ×versicolor** (Late Michaelmas-daisy) (Blodyn-Mihangel Diweddar). Ynys Fawr, SH59 42, Merioneth Naturalists/Grwp Natur Meirionnydd, 30th Aug 2012.
- +‡135/41.4×5. **Aster ×salignus (A. novi-belgii × A. lanceolatus)** (Common Michaelmas-daisy) (Blodyn Mihangel). Traeth Glaslyn, SH53Z, Merioneth Naturalists/Grwp Natur Meirionnydd, 22nd Aug 2013; (+) Mynydd Rhyd ddu, SJ04N, Merioneth Naturalists/Grwp Natur Meirionnydd, 26th Sep 2013.
- ‡135/59.1. **Matricaria chamomilla** (Scented Mayweed) (Amranwen Bêr). Pen-y-foel-isaf, SJ04T, S.E. Stille & J.B. Warner, 29th Aug 2013.
- ⊖135/71.1. **Petasites hybridus** (Butterbur) (Alan Mawr). Egryn Abbey area (SH5920), SH594 201, P. Spencer-Vellacott, J. Warner & J. Langton, 28th May 2013.
- +‡135/71.2. **Petasites japonicus** (Giant Butterbur) (Yr Alan Mwyaf). ©Maesneuadd, SH78 20, P.R. Green, M. Rand & T. Mundell, 29th May 2013.
- +‡135/71.4. **Petasites fragrans** (Winter Heliotrope) (Alan Pêr). Garden wall, Llechwedd Cilan, SJ018 367, S.E. Stille, 20th Feb 2013, 1st hectad record.

- 135/81.2. **Bidens tripartita** (Trifid Bur-marigold) (Graban Teiran). Riverside, River Alwen, Hafod east, SJ06 42, S.E. Stille & J. Lees, 2nd Sep 2013.
- +148/2.2. **Lemna minor** (Common Duckweed) (Llinad y Dŵr). Llwynllwyddyn, SH82P, S.E. Stille, 6th Aug 2013.
- *151/2.1. **Luzula forsteri** (Southern Wood-rush) (Coedfrwynen Gulddail). Coed y Brenin, SH71 27, J. Harold, 1st Jun 2013, 1st VC record, **SES**
- +‡153/17.3 **Briza maxima** (Greater Quaking-grass) (Crydwellt Mawr). ©As weed on pavement, Trem y Mor, SH581 296, M.W. Rand & H. Colls, 30th May 2013, presumed escape from neighbouring gardens.
- *©153/27.1.b. **Arrhenatherum elatius var. bulbosum** (Onion Couch). Llanymawddwy S, SH90 18, J. Hughes, 28th Jun 2013.
- +158/14.1×2. **Polygonatum ×hybridum** (Garden Solomon's-seal) (Llysiâu-Solomon yr Ardd). Caerynwch estate, SH7617, SH76 17, S.E. Stille & M. Rand, 28th May 2013.
- +158/20.2×3. **Hyacinthoides ×massartiana (H. hispanica × H. non-scripta)** (Clychau'r-gog Croesryw). Penmaenpool, SH69 18, H. Colls, 31st May 2013.
- *‡159/02.2.© **Sisyrinchium montanum** (American Blue-eyed-grass) (Sisirinciwm y Mynydd). Roadside, Llechwedd Slate Cavern, SH69 46, M. Watling, det.S.E. Stille, 18th Jul 2013, **Photos**
- +162/06.2. **Neottia cordata** (Lesser Twayblade) (Caineirian Bach). Mynydd y Gader, SH719 150, A.N. Graham & J.E. Graham, 29th May 2013.
- 162/13.2 **Platanthera bifolia** (Lesser Butterfly-orchid) (Tegeirian Llydanwyrdd Bach). Meadow, Cefn Rofft, SJ00 49, S.E. Stille, 15th Aug 2013, a site feature for the SSSI but not on BSBI databases

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

- +005/2.1. **Botrychium lunaria** (Moonwort) (Lloer-redynen). Sandy molehills, Morfa Bychan, SH53 37, G. Williams, 10th Jun 2013; (+) hill pasture, Penmaenmawr, SH70 75, J. Driver, 2013.
- +‡024/1.1 **Laurus nobilis** (Bay) (Llawrwydden). Grassland at base of hill, Criccieth, SH49 37, W. McCarthy & M. Stead, 13th Oct 2013, 2 small bushes near a mature planted tree.
- +027/1.1. **Ceratophyllum demersum** (Rigid Hornwort) (Cyrnddail Caled). Pond, Bangor, SH54 69, J.H. Bratton, 5th Oct 2013.
- +045/3.1.a. **Montia fontana subsp. fontana**. Sandy grassland near the sea, Cim headland, Machroes, SH32 25, J.H. Bratton, 7th Jun 2013, checked under microscope.
- +‡051/1.01. **Hypericum calycinum** (Rose-of-Sharon) (Rhosyn Saron). Side of footpath, Llanfairfechan, SH69 76, E. Phenna, 24th Sep 2013.
- +075/09.13×14. **Potentilla ×suberecta**. Bank of lane, Penychain, SH42 36, W. McCarthy, 20th Oct 2012.
- +‡075/32.22. **Cotoneaster hjelmqvistii** (Hjelmqvist's Cotoneaster) (Cotoneaster Hjelmqvist). Amongst gorse on hillside, Criccieth, SH49 37, W. McCarthy & M. Stead, 13th Oct 2013.
- +077/19.13. **Trifolium micranthum** (Slender Trefoil) (Meillionen Hopysaidd Eiddil). Sandy grassland, Pwllheli, SH43 36, W. McCarthy, 7th Jun 2013.

- +077/26.1×2. **Ulex ×breoganii (Castrov. & Valdés-Berm.) (U. europaeus × U. gallii)**. Bank near railway station, Penychain, SH42 36, W. McCarthy, 20th Oct 2012.
- +079/2.3. **Myriophyllum spicatum** (Spiked Water-milfoil) (Myrdd-ddail Ysbigog). Pond, Pwllheli, SH43 36, W. McCarthy, det.J.H. Bratton, 7th Jun 2013.
- *‡116/04.6. **Symphytum orientale** (White Comfrey) (Cyfardwf Wen). Dumped soil, Llangwstenin, SH81 79, W. McCarthy, 24th May 2013.
- +‡116/09.1. **Borago officinalis** (Borage) (Tafod yr Ych). Pavement edge, Criccieth, SH49 38, W. McCarthy & M. Stead, 13th Oct 2013, probably from scattered bird seed.
- +‡118/01.2. **Stachys byzantina** (Lamb's-ear) (Clust yr Oen). Grass verge, Pwllheli, SH37 35, W. McCarthy, 16th Jun 2013.
- +†124/08.2. **Chaenorhinum minus** (Small Toadflax) (Trwyn-y-llo Bach). Steep path in quarry, Dinorwig, SH59 60, J. Harold, 2013.
- +†124/12.1. **Kickxia elatine** (Sharp-leaved Fluellen) (Llysiau-Llywelyn). Arable field edge, Porth Dinllaen, SH28 40, W. McCarthy, 7th Oct 2013; (+) disturbed ground, Penychain, SH42 36, W. McCarthy, 20th Oct 2012.
- +124/20.05.b. **Euphrasia arctica subsp. borealis**. Short-grazed pasture, Pwllheli, SH43 36, W. McCarthy, 7th Jun 2013.
- +‡135/40.3. **Solidago canadensis** (Canadian Goldenrod) (Eurwialen Canada). Roadside bank, Llanfairfechan, SH67 73, E. Phenna, 4th Jul 2013.
- 135/54.1. **Chamaemelum nobile** (Chamomile) (Camri). Short grazed damp grassland, Conwy, SH75 76, S.B. & A.E. Evans, 26th Sep 2013.
- +‡135/73.1. © **Calendula officinalis** (Pot Marigold) (Melyn Mair). Footpath edge, Llandudno, SH80 82, W. McCarthy, 26th Feb 2013.
- +‡147/5.2.b. **Arum italicum subsp. italicum**. Lane bank, Bodafon, Llandudno, SH80 81, W. McCarthy, 26th Feb 2013.
- +152/16.26 **Carex riparia** (Greater Pond-sedge) (Hesgen-y-dŵr Fawr). Saltmarsh near river, Llanystumdwy, SH47 37, W. McCarthy & M. Stead, 5th Oct 2013.
- +153/12.04. **Festuca altissima** (Wood Fescue) (Peiswellt y Coed). Bank near stream in woodland, Llanrwst, SH79 60, W. McCarthy, 27th Oct 2013.
- +‡153/46.2. **Polypogon viridis** (Water Bent) (Barfwellt y Dŵr). Wall base & pavement cracks, Trefor, SH37 46, W. McCarthy & M. Stead, 17th Nov 2013.
- +‡153/PAN.mil. © **Panicum miliaceum** (Common Millet) (Miled). Pavement crack, Criccieth, SH49 38, W. McCarthy & M. Stead, 13th Oct 2013, probably from scattered bird seed

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

- +007/1.1. **Cryptogramma crispa** (Parsley Fern) (Rhedynen Bersli). Oernant Quarry, Moel y Faen, SJ1836 4700, J. Lawton Roberts, 6th Aug 2013.
- +011/1.1×2. **Polypodium ×mantoniae (P. vulgare × P. interjectum)**. Bronington, SJ48 39, J. Shanklin, 4th Nov 2013, det under microscope.
- +‡045/2.2. **Claytonia sibirica** (Pink Purslane) (Porpin Pinc). Hafod Bilston, SJ207 512, J. Shanklin, 8th Jun 2013.

- +046/10.1. **Sagina nodosa** (Knotted Pearlwort) (Corwlyddyn Clymog). Moel y Faen, SJ18 47, J. Lawton Roberts, 6th Aug 2013.
- +046/17.3. **Spergularia marina** (Lesser Sea-spurrey) (Troellig Arfor Bach). Verge, Little Green, SJ48 40, J. Shanklin, 4th Nov 2013, road verge A525.
- +047/8.13×19. **Rumex crispus** × **R. obtusifolius** = **R. ×pratensis**. Verge, Pont Alwen, SH962 524, DenbsGroup, 7th Jul 2013, by telegraph pole about 20m along track from main road. A large stand.
- +056/2.3.a. **Helianthemum oelandicum subsp. incanum**. Limestone scrub, Bryn Euryn, SH82970 80000, DenbsGroup, 23rd Jun 2013, frequent over the Bryn.
- +077/10.3. **Ornithopus perpusillus** (Bird's-foot) (Troed yr Aderyn). Borrás Gravel Pit, SJ367 520, J. Shanklin, 21st May 2013, common at top of bank of new dual carriageway.
- +077/19.20. **Trifolium striatum** (Knotted Clover) (Meillionen Rychog). Limestone scrub, Bryn Euryn, SH82970 80000, Denbighshire Group, 23rd Jun 2013.
- +‡084/4.3. **Oenothera biennis** (Common Evening-primrose) (Melyn yr Hwyr). Fenn's Moss, SJ479 367, K.K. Bell, 18th Sep 2013, by the Old Works.
- +‡103/1.13×pla. **Geranium ibericum** × **G. platypetalum** = **G. ×magnificum** (Purple Crane's-bill) (Pig-yr-aran Borffor). Elorgarreg, SH96420 53152, S.P. Chambers, 10th Jul 2013, large clump, 0.8x0.4m, edge of forestry track entrance on W side of B4501. Garden throw-out. 2nd for VC.
- +118/23.1×2. **Mentha arvensis** × **M. aquatica** = **M. ×verticillata** (Whorled Mint) (Mintys Troellennog). Stream, Bryn Hyfryd, SJ019 626, D. Williams & J.A. Green, 17th Jul 2013, stream along side of road.
- +135/16.3. **Leontodon saxatilis** (Lesser Hawkbit) (Peradyl Bach). Pasture, Lawnt, SJ046 652, D. Williams & J.A. Green, 15th Jul 2013, frequent all over steep grazed S-facing bank; (+) Sutton Green, access land, SJ406 481, J. Shanklin, 30th Jul 2013.
- +‡135/62.03. **Senecio inaequidens** (Narrow-leaved Ragwort) (Creulys Gulddail). Glan Conwy, SH807 772, D.J. Evans, 7th Jul 2013, one large plant on wall by Black Cat Roundabout.
- +‡148/2.4.© **Lemna minuta** (Least Duckweed) (Llinad Bach). Church pond, Bronington East, church, SJ491 392, J. Shanklin, 4th Nov 2013; (+) in pond, Little Green, SJ480 408, J. Shanklin, 4th Nov 2013.
- +152/16.39. **Carex laevigata** (Smooth-stalked Sedge) (Hesgen Lefn). Bryn-yr-odyn, SJ20 48, J. Shanklin, 8th Jun 2013.
- +‡153/47.6. **Alopecurus myosuroides** (Black-grass) (Cynffonwellt Du). Field, Burton Meadows, SJ357 592, J. Shanklin, 12th Sep 2013, locally frequent in silage field.
- +153/59.4. **Hordeum secalinum** (Meadow Barley) (Haidd y Maes). Verge, Pont Alwen, SH96351 52395, L. Ruffino, 7th Jul 2013, one small clump at E side of road, almost opposite junction of track.
- +162/14.1. **Anacamptis pyramidalis** (Pyramidal Orchid) (Tegeirian Bera). Grassland, Bryn Euryn, SH8299 8002, Denbs Group, 23rd Jun 2013, a few in grassland area

FLINT, v.c.51 (comm. Ms E. Meilleur)

- ⊗062/22.1. **Erophila majuscula** (Hairy Whitlowgrass) (Llysiau'r-bystwn Blewog). Limestone, Graig Fawr, SJ0593 8037, E. Meilleur & P. Spencer-Vellacott, 16th Apr 2012, first record since 1945.
- *‡077/14.05.© **Vicia villosa** (Fodder Vetch) (Ffacbysen y Tir Âr). Rhydymwyn, SJ208 660, R. Jones, 31st Aug 2013.
- *©135/55.aus. **Anthemis austriaca** (Austrian Chamomile). Pig Field, Nercwys Forest, SJ219 587, E. Meilleur & Recording Group, 10th Jun 2011, in ploughed and seeded field.
- *‡153/46.2.© **Polygonum viridis** (Water Bent) (Barfwellt y Dŵr). Rough pathway, Mold, SJ2402 6404, M. Stead, 29th Sep 2012, **H**
- *‡153/46.2.© **Polygonum viridis** (Water Bent) (Barfwellt y Dŵr). Grass verge, Buckley, SJ2862 6386, P. Thomas, 18th Oct 2012, **H**

ANGLESEY, v.c.52 (comm. N.H. Brown & I.R. Bonner)

- +005/1.1. **Ophioglossum vulgatum** (Adder's-tongue) (Tafod y Neidr). Pasture, Nant, Pentre Berw, SH483 741, J. Bratton, 22nd May 2013, new hectad.
- +046/01.1.c. **Arenaria leptoclados** (Slender Sandwort). Limestone rocks, Penmon, SH628 809, I. Bonner, conf. A.O. Chater, 4th Aug 2013, **Hb I.R.B.**
- *‡075/08.0.02. **Rubus tricolor** (Chinese Bramble) (Llwyn Mwyar Trilliw). Waste ground, Llangoed, SH6113 7953, T. Phenna, 12th Jul 2013, description, but no specimen or pictures. Presumably bird sown.
- ⊗077/14.08. **Vicia tetrasperma** (Smooth Tare) (Ffacbysen Lefn). Grass verge, Bryntwrog, SH418 797, M. Rand, 14th Jun 2013, first record since 1895 (from Beaumaris in JE Griffith's Flora of Anglesey & Caernarvonshire).
- *077/15.05. **Lathyrus palustris** (Marsh Pea) (Ytbysen y Gors). Marsh, Plas Bog, Valley, SH33 76, I. Bonner, 16th Jul 2013, small colony scrambling up mixture of horsetails and rushes, **Hb I.R.B.**
- ⊗079/2.1. **Myriophyllum verticillatum** (Whorled Water-milfoil) (Myrdd-ddail Troellenog). Main ditch, Malltraeth Marsh, SH46 72, R. Lansdown, 4th Jul 2013.
- +103/1.15. **Geranium pusillum** (Small-flowered Crane's-bill) (Pig-yr-aran Fân-flodeuog). Limestone rubble, Penmon, SH6277 8095, I. Bonner, 4th Aug 2013, new hectad.
- *©110/9.fer. **Datura ferox** (Angel's-trumpets) (Utgyrn yr Angylion). Waste ground, Wylfa, SH355 938, S.P. Chambers & P.A. Budd, 20th Nov 2013, c. 3 plants in fruit, mixed with *D. stramonium*, on disturbed former garden site by demolished building, Wylfa. Photos supplied.
- +‡116/04.1×2×4. **Symphytum ×hidcotense** [**Symphytum 'Hidcote Blue'**] (**S. officinale** × **S. asperum** × **S. grandiflorum**) (Hidcote Comfrey) (Cyfar dwf Hidcote). Hedgerows, Bryntwrog, SH41 79, M. Rand & G. Copsey, 14th Jun 2013; (+) roadside, Glan-aber, Amlwch, SH4599 9211, I. Bonner, J. & I. Rees, 13th May 2013; (*)

- roadside outside churchyard, Llangoed, SH611 805, T. Phenna, det. W. McCarthy, 23rd Apr 2013.
- ⊗137/4.2. **Alisma lanceolatum** (Narrow-leaved Water-plantain) (Llyriad-y-dwr Culddail). Lake margin, Llyn Dinam, SH30 77, R. Lansdown, Aug 2012, also from Llyn Treflesg, SH30.76.
- *‡148/2.tur. **Lemna turionifera**. Main ditch, Malltraeth Marsh, SH46 72, R. Lansdown, 4th Jul 2013, **Hb I.R.B.**
- *152/16.28×29. **Carex ×involuta (C. rostrata × C. vesicaria)**. Marsh, Plas Bog, Valley, SH33 76, I. Bonner & R. Lansdown, conf. A.O. Chater, 1st Jul 2013, **Hb I.R.B.**
- +153/56.2. **Elytrigia atherica** (Sea Couch) (Marchwellt Arfor). By outfall from Llyn Maelog, Rhosneigr, SH321 726, M. Stead, 6th Oct 2013, new hectad and first record since 1998, **Hb I.R.B.**
- *‡158/31.1. **Leucojum aestivum** (Summer Snowflake) (Eiriaidd yr Haf). Edge of school field, Bodedern, SH33 80, D. Evans, 7th May 2013.
- +162/14.1. **Anacamptis pyramidalis** (Pyramidal Orchid) (Tegeirian Bera). Road verge, Llanddyfnan, SH498 785, H. Knott, 15th Jul 2013.
- *162/18.4. **Dactylorhiza praetermissa** (Southern Marsh-orchid) (Tegeirian-y-gors Deheuol). Meadow, Plas Newydd, Llanfairpwll, SH516 694, J. Woodman, det. T. Rich, conf. I. Denholm, 14th Jun 2013, first confirmed record for Anglesey. BSBI AGM visit to NT's Coronation Meadow
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Images on opposite page :

5: *Sagina maritima* (Sea Pearlwort) on the side of the A55 on Anglesey.

6: Sea Pearlwort habitat shot.

Photos: Paul Green. (See article, page 11).

Images on back cover :

7: New record of *Bromus secalinus* (Pawrwellt Bach or Rye Brome) for Neath Port Talbot. Found in arable fields near Junction 38 of the M4 by Barry Stewart and then Charles Hipkin in August 2013. Photo: Charles Hipkin (See Glamorgan 2013 plant records, p.24).

Thanks go to Charles Hipkin for this excerpt from his blogpost on Gower Wildlife, 16 August 2013 : <http://goweros.blogspot.co.uk/2013/08/rye-brome.html>

Rye Brome is an archaeophyte, probably brought to Britain with wheat and rye crop seeds. Until the introduction of efficient seed cleaning methods, Rye Brome seeds were common cereal contaminants. It has evolved to mimic the cereal crops with which it grows, so that the spikelets that contain the seeds (or grain) disarticulate (break up) and release the seed at exactly the right time to ensure collection with the cereal harvest. Occasionally, Rye harvests contained so much contaminating seed that the flour was spoiled by a characteristic bitter taste. According to Cope & Gray (in *Grasses of the British Isles*), this is where the name Cheat Grass originated. With the advent of efficient seed 'cleaning', Rye Brome became less common as an arable weed and decreased greatly in abundance. It seems to be making a comeback.

8: *Persicaria minor* (YDinboeth Fach or Small Water-pepper). Our best-attended recording meeting of the year at Llangasty on Llangors lake encountered a large population of "unusual *Persicaria*" on the shore and a prolonged debate ensued among the several experts present. At first it was thought to be *Persicaria mitis*, which would be the first record since 1927 but 24 hours later Paul Green contacted me to say it must be *P. minor*, a first record since 1975, albeit slightly unusual material. Then on one of his next trips to the county he stopped off at the Llyn-on reservoir to find another large population there. Photo: J.R. Crellin. (See Breconshire 2013 plant records, p.25).



