





Contents

Editorial, <i>K. Slade</i>	4
Location of BSBI members in Wales, <i>R.Pryce</i>	5
Moschatel as a Woodland Coloniser, <i>S.Tyler</i>	6
A new record of <i>Dactylorhiza purpurella</i> (Northern Marsh Orchid) in Carmarthenshire, <i>T. Greenaway</i>	8
<i>Gagea lutea</i> Yellow Star-of-Bethlehem Seren-Fethlehem felen in VC50 Denbighshire/Sir Ddinbych, <i>D. Williams</i>	10
A new site for <i>Equisetum x robertsii</i> , <i>M. Sutton</i>	12
Aberystwyth Botanical Society visit to Ynyslas Dunes, Ceredigion, <i>C. Griffiths</i>	13
Welsh Plant Records 2021	14

Front cover, image 1: Spring flowering *Adoxa moschatellina* (Moschatel) in Monmouthshire. © Wendy Tyler-Batt. See article on page 6.

Page 2, image 2 and 3: A new site for *Equisetum x robertsii* in a disused limestone quarry in Pembrokeshire. © Matt Sutton. See article on page 12.

Image 4: *Ammophila arenaria* (Marram), widely distributed around much of the low-lying shorelines on the island; but not before recorded on the north coast of Anglesey. A small clump was located 100m from the sea in gravelly ground on the old derelict chemical processing works west of Amlwch Port (SH4493). © Ian Bonner. See Welsh Plant Records 2021 for Anglesey.

Image 5: The *Gentiana pneumonanthe* (Marsh Gentian) count at Cors Goch in August 2022 was the highest since counts began. It really was a sea of blue running through the purple Heather. A taster of Anglesey Plants 2022 in the next issue! © Vicky Hulse.

Items for inclusion in the next Welsh Bulletin should be sent to Richard Pryce by **1 Dec 2022**. 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), Dept. Natural Sciences, Amgueddfa Cymru-National Museum Wales, Cathays Park, Cardiff, CF10 3NP.

See bsbi.org.uk/wales for back issues. Printed versions of some back issues are still available on request.

Editorial

This issue of the Bulletin comes a little later than usual this year as we go into autumn, and I look out of the museum windows at the lime trees already turning yellow in places due to the drought in our changing climate.

While there are no more field meetings scheduled in Wales for this year, you can sign up for the Recorder's Conference, to be held on 28-30 October at Preston Montford, the first Recorder's conference held since 2018. There is also the British and Irish Botanical Conference on 19 November at the Natural History Museum, London. Visit the BSBI website for more information: bsbi.org/field-meetings-and-indoor-events. For up-to-date news from the BSBI in Wales, you can also follow @BSBICymru on Twitter, managed by Robbie Blackhall-Miles.

As curator for lower plants and fungi at Amgueddfa Cymru-National Museum Wales, I'd like to give a small update on this part of the museum's botanical collections. A specimen of *Lamprothamnium papulosum* (Foxtail Stonewort) has been donated to the museum which confirms the first record for Wales. This specimen is an important one for documenting our native flora and the effects of climate change. The species is rare in the UK and is likely to be adversely affected by changes to our climate, especially those that affect water quality and sea level rises. This alga may have been spread by geese from more southern localities in England, making journeys between similar habitats.

Further information on this and other stoneworts can be found in the Red List of Welsh Stoneworts 2020 by Nick Stewart and Tristan Hatton-Ellis and published by Natural Resources Wales. It is free to download, and you can access it from the BSBI Wales webpage. More records and specimens for this under-recorded group are important to track the changes in our flora.

Please get in contact with Sally, Richard or me if you have any articles, notes, adverts, photos etc for future bulletins. The deadline for submissions for the next issue is 1 December 2022.

Katherine Slade, 1 September 2022

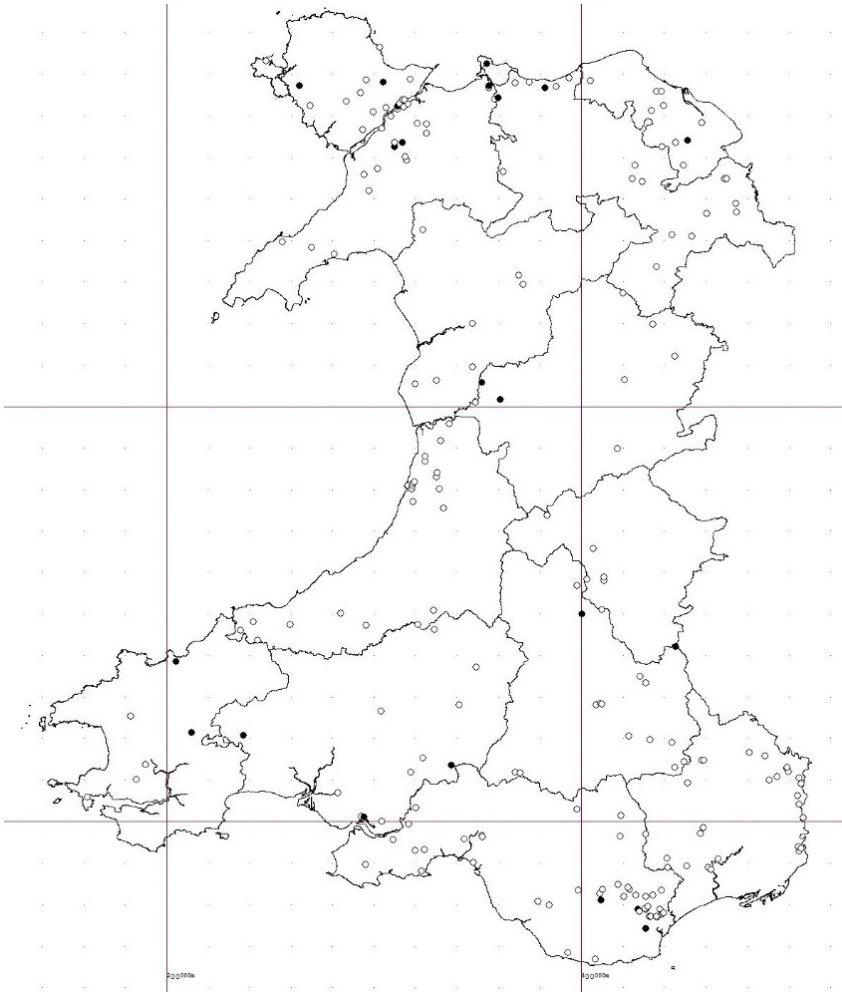


Specimen of Foxtail Stonewort from Anglesey, yet to be curated

Location of BSBI members in Wales

Richard Pryce

This map shows the location of BSBI members in Wales and was produced by Stephen Coker using data provided by Gwynn Ellis. Open circles mean one member live at a location, while black circles represent two or more members.



While we are unable to give further details of members addresses due to data protection legislation, we appeal to any members wishing to become more involved to contact their Vice-County Recorder.

Moschatel as a Woodland Coloniser

Steph Tyler, joint vice county recorder for Monmouthshire, v.c.35

Some time ago I read with interest the fascinating article by Richard Jefferson & Keith Kirby (2018) on *Adoxa moschatellina* (Moschatel). This article is well worth reading if you haven't already done so. The authors amongst other things, discussed whether Moschatel is an ancient woodland indicator or a coloniser as in Europe. This caught my interest as outlined below.

To me it is the emerging first leaves of Moschatel in late February or early March and then the strange but beautiful small flowers that delight me as the true harbingers of spring (see front cover image). They lift my spirits every bit as much as the first flowers of *Anemone nemorosa* (Wood Anemone) or *Viola odorata* (Sweet Violet). In Monmouthshire the species is widespread but not common throughout much of the northern and eastern section of the vice-county, scarcer in the intensively farmed central areas and rare or absent on the low-lying coastal Levels and in the west of the vice-county in the former industrial valleys. It is mainly found at the edges of broad-leaved woodlands, on shaded banks often alongside sunken tracks, by wooded stream-sides and in those few old hedgerows unaffected by fertiliser run-off.

In about 1984 we purchased six acres of steep south-facing unimproved pastures (MG5 grassland) at Penallt in a side valley of the Wye Valley south of Monmouth. The fields lie over Old Red Sandstone, and the soil varies from slightly acidic to slightly alkaline. To the north of the field lay an intensive cattle farm and we received regular run-off from the *Lolium perenne* (Perennial Rye-grass) leys of water, fertiliser and soil so that the top of the pasture was becoming enriched and supported rank grass and *Urtica dioica* (Common Nettle). To try to prevent damage to the flora below on the steep slopes we planted up a copse in a small, more enriched enclave and a strip of trees along the flatter top of our pastures. We planted *Tilia cordata* (Small-leaved Lime), *Prunus avium* (Wild Cherry), *Fraxinus excelsior* (Ash), *Betula pendula* (Silver Birch) and *Quercus robur* (Pedunculate Oak), species that were present in the vicinity, in the hope that the growing trees would 'mop up' the nitrates and phosphates from our neighbour. The trees were protected in 2m tubes for their first few years. Shrubs such as *Corylus avellana* (Hazel) and *Euonymus europaeus* (Spindle) did not fare well because of browsing damage by Fallow Deer and other deer.

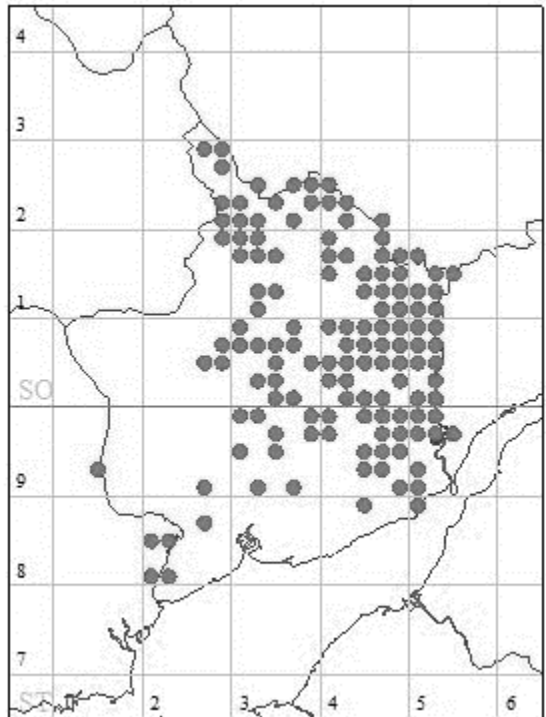
The trees especially the Wild Cherry and Ash are now well-grown and the problem with the dairy farm has been solved by its purchase by Gwent Wildlife Trust who now run it on an organic basis and are steadily converting the rye-grass pastures

to species-rich hay meadows and pastures.

I have observed what plants have colonised the new woodland as the former grass disappeared under a closing canopy. *Ficaria verna* (Lesser Celandine), *Glechoma hederacea* (Ground-ivy) and *Veronica hederifolia* (Ivy-leaved Speedwell) were the first colonisers and *Hyacinthoides non-scripta* (Bluebell) have gradually spread from the edges and also developed new patches. *Veronica montana* (Wood Speedwell), *Geum urbanum* (Wood Avens), *Moehringia trinervia* (Three-nerved Sandwort) and *Silene dioica* (Red Campion) have appeared and are now widespread. In 2015 I noticed that Moschatel had appeared around the base of a tree well into the new copse; there are now several large patches in this area, one about 3m x 4m. There was formerly one patch of Moschatel in an old hedge-line along the top of the new wooded strip about 30m away from the main copse so seed could have been transferred by mammals such as rabbits, badgers, deer or domestic cattle, by birds or perhaps even by molluscs. In continental Europe Jefferson & Kirby noted that there was some evidence that slugs and snails dispersed the seeds after ingesting them and the seeds passing through their digestive system.

In spring of 2021 and 2022, Moschatel was found to be prolific in numerous dispersed patches, some up to 2 square metres in size, in the narrow-wooded strip along the top of the field. Here, *Ranunculus auricomus* (Goldilocks Buttercup) also appeared in 2021.

Jefferson & Kirby (2018) discussed whether Moschatel is an indicator of ancient woodland in Britain or whether as in Europe it is a coloniser. In Britain



Map of *Adoxa moschatellina* (Moschatel) in Monmouthshire, v.c.35, showing its current eastern and northern distribution.

it is generally assumed that it is an ancient woodland indicator but, for example, in Belgium it is considered to be a moderately good colonising species and able to establish populations in recent woodland. At Penallt, Moschatel has indeed, quickly colonised the new woodland areas and patches then spread vegetatively. No doubt the enriched pasture that the new woodland replaced was once part of the Wye Valley ancient woodlands but in the 1830 maps the fields are shown as pear orchards. It would be interesting to know if any reader has found the species in new woodland planted on grassland?

Reference

Jefferson, R. & Kirby, K. (2018). A scent of musk - the 'life and times' of Moschatel, the Good Friday flower. *British Wildlife* **30** (2): 79-85.

A new record of *Dactylorhiza purpurella* (Northern Marsh Orchid) in Carmarthenshire

Theresa Greenaway

Our smallholding near Felingwm, approximately 8 miles north-east of Carmarthen, was overgrazed when we moved in twelve years ago, since when it has been managed primarily for biodiversity. We have nine fields altogether, two of which, including the one in which the *Taraxacum* population has been sampled, are only sheep-grazed as their topography makes them unsuitable for hay cutting. The dynamics of the three lower fields is different as they have all been planted with trees, and all have steeply sloping middle sections down to a flat strip adjacent to the Afon Cloidach, a tributary of the Afon Cothi. *Orchis mascula* (Early Purple-orchid) and *Epipactis helleborine* (Broad-leaved Helleborine) have both appeared here and are multiplying. At the bottom of the field furthest away, there is a larger flat area where the hope is that reasonable rhôs grassland will develop. Three rather different orchids have appeared here, one a rather robust plant that I tentatively identified as the hybrid *Dactylorhiza x carnea* (*D. maculata* x *D. incarnata*). This is the area where *Trocdaris verticillata* (*Carum verticillatum*) (Whorled Caraway) is gradually increasing.

One enclosed wet area above the house was extensive wet bramble thicket, leading down to a small, drier unimproved field where, we were told, a previous farmer used to put animals needing care. Most of the wetter area was cleared and planted with *Salix* (willow) cultivars until, in 2014, our taps suddenly ran dry. This

led to urgent and extensive investigation. The pipeline was traced back from the reservoir supplying the house across the small field and up into the wetter area. Since then, this sloping west-northwest-facing strip is mown in autumn to keep it clear of scrub in case further water works should be required. The developing vegetation has elements of the NVC M23b and MG10 communities.

It was June 2019 when I first noticed a deep purple orchid with unspotted leaves amongst the grassy vegetation now covering this strip. Shamefully, although delighted to see it, I had not really got very far with orchid identification at that time as I came across so few of them. Under the strict lockdown of 2020, I spent more time updating nearby tetrads but the appearance of a rather unexpected flush of orchids across four of our larger fields in 2021, was an ideal opportunity to get to grips with both spotted and marsh orchids.

So back to the damp flush, where the deep reddish-purple orchids were in full flower. Consulting Cole & Waller (2020), I identified it as *Dactylorhiza purpurella* (Northern Marsh-orchid) and sent a photo to Richard Pryce for confirmation, a new record for SN52 (see image 11 and 12 on back cover). In June 2022 there were six flowering spikes and the contrast between the rich purple, rather short spikes of the *D. purpurella* and the taller, paler spikes of *Dactylorhiza praetermissa* (Southern Marsh-orchid) growing in the drier field just below, was striking. Without wanting to damage the flower spikes, I waited until they were in fruit to get a rough estimate of the number of flowers. Sell & Murrell (1996) state 'numerous flowers' for *D. praetermissa* and 'up to 20 (30)' flowers for *D. purpurella*. Comparing the photographs taken in 2021 and 2022, I would estimate there were approximately 12-20+ seed capsules in the *D. purpurella* spikes and up to 50 or more in the Southern marsh orchids. Associates recorded at the time of flowering were *Athyrium filix-femina* (Lady-fern), *Ranunculus repens* (Creeping Buttercup), *Cirsium palustre* (Marsh Thistle), *Rumex acetosa* (Common Sorrel), *Juncus effusus* (Soft-rush), *Lotus pedunculatus* (Greater Bird's-foot Trefoil), *Ranunculus acris* (Meadow Buttercup) and *Holcus lanatus* (Yorkshire-fog).

In Carmarthenshire this orchid is seldom recorded and is rare away from the coast. There are 21 records on the County Recorder's database (R.D. Pryce, *pers. comm.*) dating from the 1970s to 2021, predominantly along the south-west coastal region of the county, with just a few, widely spread, scattered records inland. The appearance of any orchids is welcome, and about the time I first found *D. purpurella*, isolated individuals of other orchid species appeared in four of our larger fields that are sheep-grazed from September to February and cut for hay or silage from June to August (depending on the weather).

We had been cautiously optimistic that orchids would increase in these fields after a few isolated dactylorchid spikes appeared in 2015 to 2017 and so were extremely pleased that in 2021 there was a sudden proliferation of *D. praetermissa* and *D. fuchsii* (Common Spotted-orchid) and the first appearance of *Platanthera chlorantha* (Greater Butterfly-orchid) in these fields. This was an excellent opportunity to improve identification skills, although the variability of spotted and marsh orchids and their enthusiasm for hybridisation means that this is always a challenge.

The larger fields were improved in the past, so the appearance of all orchids is very encouraging, but especially so, the group of *D. purpurella* on a small, enclosed patch that does not seem to have been improved or cultivated in the past.

References

Cole, S. & Waller, M. (2020) *Britain's Orchids. A field guide to the orchids of Great Britain and Ireland*. Princetown University Press.

Sell, P. & Murrell, G. (1996) *Flora of Great Britain and Ireland Vol. 5 Butomaceae-Orchidaceae*. Cambridge University Press.

Gagea lutea Yellow Star-of-Bethlehem Seren-Fethlehem felen in VC50 Denbighshire/Sir Ddinbych

Delyth Williams, vice-county recorder for Denbighshire, v.c.50

So good to confirm that a plant rare in Wales is still in the country. It is not rare in England nor Scotland and absent in the wild in Ireland (see map on page 11).

According to the BSBI database, there are only two extant sites for this plant in Wales, both in VC50 Denbighshire/Sir Ddinbych. One is on private land and I know the owner keeps a check on it. The other was shown to me in 2009 in square SJ2055 near Graianrhyd by Jean Green where we recorded more than 1000 plants over 50 x 20m. The species is characterised by a single leaf emerging in the spring from a bulb, subtending a lovely but fragile pale-yellow flower (image 6 on page 59). If it comes into flower, it does so in March.

Last year I took a photo of the site (image 7 on page 59) and of a leaf (no flowers!) (image 8 on page 59). It is quite difficult to distinguish from a *Hyacinthoides non-*

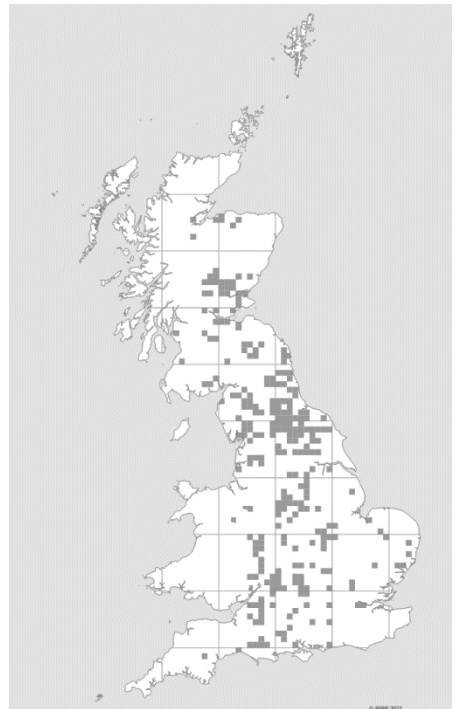
scripta (Bluebell) leaf, or indeed much else, but once you get your eye in its OK. The leaves are greener, have a more pointed tip and have 3 (or 5) distinct veins on the underside.

This is what Ian Taylor had to say from Atlas 2000:

“A bulbous perennial herb of moist, base-rich, shady habitats including woods, hedgerows, limestone pavements, pastures, riverbanks and stream banks; sometimes washed down on alluvium in riverine woodland subject to seasonal flooding...G. lutea is often shy-flowering, especially in its shadier localities, and many populations are small and widely scattered.”

We have been keeping a check on *Gagea lutea* since and it appears to be regressing in its range. Quite why is difficult to say but we do notice most of the leaf tips are cropped. We suspect pheasants which have had an unwelcome increase in the area recently.

There are populations in Shropshire (v.c.40) in SJ22 and in Cheshire (vc.58) in SJ44, neither too far from the Welsh border. Perhaps it is under-recorded in Wales? It flowers very early in the year in March and if it does so is easy to spot, but perhaps it is too early for the majority of recorders to be about, and so enigmatically perhaps it has been missed from likely sites? Given that the emerging and transient leaves are so very difficult to distinguish from Bluebells and early emerging *Allium ursinum* (Ransoms) and early grasses and what else? Had I not been shown this site many years ago, even though I might have passed by it, I regret to say, had it not been in flower, I doubt I would have found it.



Distribution map of *Gagea lutea* in England, Wales and Scotland

A new site for *Equisetum x robertsii*

Matt Sutton

Bottom Meadow Quarry is a disused limestone quarry just outside West Williamston in south Pembrokeshire. Unlike the nearby Point Quarry, a well-visited Wildlife Trust reserve on the estuary, there is no formal access. However, surreptitious recording visits by myself and other naturalists over recent years have revealed a range of locally-rare species such as Mare's-tail (*Hippuris vulgaris*), Fen Pondweed (*Potamogeton coloratus*), Small Red-eyed Damselfly (*Erythromma viridulum*) and Strap-leaved Earth-moss (*Ephemerum recurvifolium*).

Whilst recording sub-populations of the latter last October, I came across a stand of an unfamiliar Horsetail (*Equisetum*) around an area of boulders at the back of the quarry near the main worked face (see image 2 on page 2). Keying it with Poland & Clement that evening, it came out as Robert's Horsetail (*Equisetum x robertsii*), the hybrid between Field Horsetail (*E. arvense*) and Great Horsetail (*E. telmateia*). It didn't look like the latter, and the green sheath teeth, not spreading, meant that it couldn't be the former. I sent the specimen to Chris Page who confirmed the identification. Neither parent grows in the immediate vicinity and *E. telmateia*, at least, is apparently absent from the quarry. This is the first record since it was discovered, new to science, on Anglesey by Trevor Dines.

Detailed notes on the population size are yet to be made, as a revisit in May this year noted only a handful of emerging shoots (see image 3 on page 2). The range of associates included typical species of rough calcareous grassland such as Wild Carrot (*Daucus carota*), Hoary Ragwort (*Jacobaea erucifolia*), Glaucous Sedge (*Carex flacca*) and Common Bird's-foot-trefoil (*Lotus corniculatus*). Butterfly-bush (*Buddleja davidii*) and Bramble (*Rubus fruticosus* agg.) scrub has been spreading in the quarry since horse grazing was removed a few years ago. Although in the Pembrokeshire Coast National Park, the quarry has no formal protection and may be vulnerable to a recommencement of operations.

Aberystwyth Botanical Society visit to Ynyslas Dunes, Ceredigion

Chloe Griffiths

Back in 2011 I was standing on Ynyslas Dunes having a conversation about which Spurge (*Euphorbia*) our brand new botanical group were looking at. It was only the second ever meeting of the Aberystwyth Botanical Society (ABS), and I was nowhere near handy enough with my copy of Rose to arrive at a confident determination.

Eleven years later and I was standing at the very same spot, this time accompanied by 14 other botanists, including the leader of our walk, Red Liford, as well as Arthur Chater and Steve Chambers, not to mention the rest of us, all at various stages of experience and skill. My copy of Rose is satisfactorily foxed, stained and scribbled over; I haven't tried to key out a Spurge in years, but now I do not fear them!

Apart from its Spurges, Ynyslas Dunes has much of interest, especially if you are willing, as a botanist must, to get down to ground level, lens in hand. See image 10 on back cover. Our reward was a wonderfully tiny landscape of plants, from Lady's Bedstraw (*Galium verum*), less than a centimetre long on the lowest part of the dune slack, the glossy half pence pieces of Marsh Pennywort (*Hydrocotyle vulgaris*) and a slender Rue-leaved Saxifrage (*Saxifraga tridactylites*), with its single white flowers nested in a tiny cliff of sand.

We thank Ynyslas Visitor Centre staff for allowing us to visit and the very welcome free parking! Thanks to Red Liford for leading us, and to all the botanists for their camaraderie and encouragement. It was a Portland Spurge (*Euphorbia portlandica*), by the way....

Welsh Plant Records 2021

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 v.c. 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) will be listed. Other records are included at the discretion of the vice-county recorder. The minimum grid reference is to a hectad but, if supplied by the recorder, more precise grid references may be included. A letter in parentheses following a grid reference indicates a tetrad.

The Vice-county Recorders are:

MONMOUTH, v.c.35; Dr Stephanie J. Tyler, Yew Tree Cottage, Lone Lane, Penallt, Mons, NP25 4AJ; steph_tyler2001@hotmail.com & Mrs Elsa. Wood (*all correspondence to Dr Tyler*).

GLAMORGAN, v.c.41 (West); Mr Barry Stewart, 36 Pencaecrwn Road, Gorseion, Swansea, SA4 4FU; moonmoths@virginmedia.com

GLAMORGAN, v.c.41 (East); Mr Julian P. Woodman, c/o NRW, Rivers House, St Mellons Business Park, Fortran Road, St Mellons, Cardiff, CF3 0EY (Please mark PERSONAL); juwood66@gmail.com

BRECON, v.c.42; Mr Mike Porter, Aberhoywy Farm, Cyffredyn Lane, Llangynidr, near Crickhowell, Powys NP8 1LR; mikechris1@btinternet.com & Dr J.R. Crellin; jrc@crellin.org.uk (*all correspondence to John Crellin*).

RADNOR, v.c.43; Miss Elizabeth R. Dean, Enmore House, Croft Lane, Kingsland, Leominster, Herefordshire, HR6 9PP; erd@btconnect.com.

CARMARTHEN, v.c.44; Mr Richard D. Pryce & Mrs Kath A. Pryce, Trevethin, School Road, Pwll, Llanelli, Carmarthenshire SA15 4AL; pryceeco@aol.com

PEMBROKE, v.c.45; Mr Stephen B. Evans, Glan-y-Mor, Dinas Cross, Newport, Pembrokeshire SA42 0UQ; glanymor.dinas@gmail.com

CARDIGAN, v.c.46; Mr Steve Chambers, 7 Cefn Melindwr, Capel Bangor, Aberystwyth, Ceredigion SY23 3LS; sterilecrust@gmail.com

MONTGOMERY, v.c.47; Dr A Kate Thorne, Churton House, Church Pulverbatch, Shropshire, SY5 8BZ; k.thorne@btinternet.com & Mrs Gill Foulkes

MERIONETH, v.c.48; Joanna Clark, 6 Tanrhiw Road, Tregarth, Gwynedd LL57 4AH; j.clark315@btinternet.com

CAERNARFON, v.c.49; Mrs Wendy N. McCarthy, 5 Tyn-y-coed, Great Orme, Llandudno, Conwy LL30 2QA. 01492 877451; wendorme@aol.com

DENBIGH, v.c.50; Mrs Delyth Williams, Bryn Siriol, Graigfechan, Ruthin, Denbighshire, LL15 2HA; delyth@siriolbryn.co.uk

FLINT, v.c.51; Ms Emily Meilleur, 1 Fron Goch, Llanberis, Gwynedd, LL55 4LE; emilytmei11@gmail.com & Ms Gail Quartly-Bishop; gailqb@hotmail.com

ANGLESEY, v.c.52; Mr Ian R. Bonner, 15 Littledean Hill Road, Cinderford, Gloucestershire, GL14 2BD; bonner@caetrefor.co.uk and Mr Nigel Brown, Granary Cottage, Llanddyfnan, Talwrn, Llangejni, Anglesey, LL77 8JA; n.brown@bangor.ac.uk

- +045/3.1. **Montia fontana** (Blinks) (Porpin y Ffynnon). Near Llandevaud, ST407 894, E. Wood & A. Wood, 9th May 2021, abandoned wet field due for development.
- +047/1.12. **Persicaria lapathifolia** (Pale Persicaria) (Canwraidd y Dom). Arable, Leechpool, ST50 89, E. Wood & A. Wood, 1st Sep 2021.
- +†047/4.6. **Polygonum rurivagum** (Cornfield Knotgrass) (Canclwm y Tir Âr). Arable, Shirenewton, ST48 92, E. Wood & S. Tyler, 25th Aug 2021; (+) arable, Portskewett, ST50 89, E. Wood & A. Wood, 1st Sep 2021.
- +†053/1.7. **Malva neglecta** (Dwarf Mallow) (Corhocysen). Llanellen, SO31 11, S. Tyler & L. MacLean, 15th Sep 2021, 2 plants behind a pile of rocks at edge of a sprayed and harvested arable field.
- +057/1.12.a. **Viola tricolor subsp. tricolor**. Near Llandevaud, ST407 894, E. Wood & A. Wood, 9th May 2021, abandoned wet field due for development.
- ‡062/01.6. **Sisymbrium orientale** (Eastern Rocket) (Roced y Dwyrain). Roadside, Cwmcarn Forest Drive, ST23 93, Monmouthshire Botany Group, det. E. Wood & S. Tyler, 14th Aug 2021, 1 plant - a rare plant in the county and this is the first record in this hectad since 1985.
- +062/10.1on. **Matthiola longipetala** (Night-scented Stock) (Murwyll yr Hwyr). Pavements, High Beech Roundabout, Chepstow, ST527 932, M. Ogden, det. E. Wood, 15th Sep 2021.
- *‡074/01.2. **Astilbe chinensis** (Tall False-buck's-beard) (Ffug-farf-y-bwch Dal). Sirhowy Valley, ST253 887, S. Davidson, 18th Aug 2021, long way from habitation.
- +‡075/01.1. **Sorbaria sorbifolia** (Sorbaria) (Sorbaria). Hedgerow, St Arvans, ST519 977, E. Wood & A. Wood, 2nd May 2021, sprawling in hedge well away from houses.
- +075/09.13×14. **Potentilla ×suberecta**. Wildlife lawn, Prospect House, Ilton, ST48 96, E. Wood & S. Tyler, 24th Jun 2021.
- +075/21.11. **Rosa stylosa** (Short-styled Field-rose) (Rhosyn Byrgolofnig). Hedgerow, Mathern Oaze, ST522 899, E. Wood & A. Wood, 24th Sep 2021.
- +†075/26.3. **Pyrus communis** (Pear) (Coeden Ellyg). Middle of a field, Mathern Oaze, ST523 896, E. Wood & A. Wood, 24th Sep 2021.
- +084/1.02×06 **Epilobium ×dacicum**. Farmyard, Hazel Farm, Llanwern, ST367 879, E. Wood & S. Tyler, 13th Jul 2021, bioblitz.
- +084/1.02×08 **Epilobium ×floridulum**. Waste ground, Llandenny, SO43 03, E. Wood & S. Tyler, 26th Jun 2021.
- †091/2.10. **Euphorbia exigua** (Dwarf Spurge) (Corlaethlys). Arable, Llanvair Discoed, ST455 918, S. Tyler & E. Wood, 25th Aug 2021, 2 plants on edge of wheat field - this plant is almost extinct in the county but this is the first record in this hectad since 1985.
- +‡094/1.2.© **Linum usitatissimum** (Flax) (Llin). Roadside, A40, SO335 099, S. Tyler & L. MacLean, 18th Sep 2021, in a layby on A40.
- +‡102/1.04. **Oxalis exilis** (Least Yellow-sorrel) (Suran Felen Fach). Pavements, Five Lanes, ST45 90, E. Wood & A. Wood, 30th Jun 2021.
- +107/19.3. **Oenanthe pimpinelloides** (Corky-fruited Water-dropwort) (Cegiden Mynwy). Wet area, St Maughans, SO46 17, S. Tyler, 23rd Jun 2021.
- +‡109/1.2. **Vinca difformis** (Intermediate Periwinkle) (Perfagl Serennog). Hedgerow, Catbrook, SO51 02, E. Wood & A. Wood, 1st May 2021.

- +‡116/05.1. **Brunnera macrophylla** (Great Forget-me-not) (Brwnera). Base of wall, Catbrook, SO51 02, E. Wood & A. Wood, 1st May 2021.
- †118/05.6. **Lamium amplexicaule** (Henbit Dead-nettle) (Marddanhadlen Goch Ddeilgron). Arable, Cwmcarvan, SO495 056, S. Tyler, E. Wood & A. Wood, 18th Aug 2021, 8 plants - this plant is almost extinct in the county but this is the first record in this hectad since 1985.
- +124/01.12.‡ **Verbascum lychnitis** (White Mullein) (Pannog Wen). Edge of arable field, Mathern Oaze, ST525 896, E. Wood & A. Wood, 24th Sep 2021, second county record - one plant.
- +130/6.05.b. **Galium palustre subsp. elongatum** (Great Marsh-bedstraw). Wet area on a brown field site, Sudbrook, ST495 874, E. Wood, A. Wood & S. Tyler, 12th May 2021.
- *135/33.6. **Gnaphalium luteoalbum** (Jersey Cudweed) (Edafeddog Felynwen). Growing in a pot!, Garniffaith, SO2660 0472, L. Gregory, 8th Aug 2021.
- +‡135/80.1. **Galinsoga parviflora** (Gallant-soldier) (Galinsoga). Edge of arable field, Mathern Oaze, ST525 896, E. Wood & A. Wood, 24th Sep 2021.
- +152/16.01×15. **Carex ×boeninghausiana (C. paniculata × C. remota)**. Wet area on a brown field site, Sudbrook, ST495 874, E. Wood, A. Wood & S. Tyler, 12th May 2021.
- +152/16.44. **Carex hostiana** (Tawny Sedge) (Hesgen Felynllwyd). Wet meadow, Blaentrophy, SO37 21, Monmouthshire Botany Group, det. E. Wood, K. Newbert & C. O'Rouke, 5th Jun 2021, locally frequent in corner of field-.
- +†153/17.2.© **Briza minor** (Lesser Quaking-grass) (Crydwellt Bach). Arable, Llanvihangel Gobion, SO339 098, J. Woodman, 23rd Sep 2021, 50+ plants, also in SO339097.
- +‡153/46.2. **Polypogon viridis** (Water Bent) (Barfwellt y Dŵr). Pavements, Llandogo, SO52 04, E. Wood & A. Wood, 24th Jul 2021, locally frequent.
- +†153/50.7. **Bromus secalinus** (Rye Brome) (Pawrwellt Bach). Arable, St Arvans, ST50 96, E. Wood & S. Tyler, 23rd Sep 2021; (+) arable, Trellech, SO50 05, S. Tyler, E. Wood & A. Wood, 18th Aug 2021.
- +‡153/70.pum.© **Setaria pumila** (Yellow Bristle-grass) (Cibogwellt Melyn). Pavements, Monmouth, SO504 125, H. Colls, 14th Sep 2021.
- +©153/PAN.cap. **Panicum capillare** (Witch-grass) (Miled y Wrach). Arable, Llanvihangel Gobion, SO34 09, J. Woodman, 23rd Sep 2021; (+) maize crop, Llanvapley, SO37 14, E. Wood & S. Tyler, 29th Sep 2021, frequent in the crop.
- +162/14.1. **Anacamptis pyramidalis** (Pyramidal Orchid) (Tegeirian Bera). Sudbrook, ST502 873, M. Cross, 20th Jun 2021.
- +162/18.4.jun. **Dactylorhiza praetermissa var. junialis**. Quarry, Caerwent, ST473 895, M. Cross, det. E. Wood, 5th Jul 2021

GLAMORGAN, v.c.41 (comm. B. Stewart)

- +028/13.11. **Ranunculus sceleratus** (Celery-leaved Buttercup) (Crafanc yr Eryr). north of Llanharan Concrete, SS999 823, Barry Stewart, 12th Jun 2020.
- +028/13.12 **Ranunculus lingua** (Greater Spearwort) (Llafnlys Mawr). Hirwaun Ponds, Tower Colliery, Hirwaun, SN947 059, Rob & Linda Nottage, 7th Aug 2020.
- +057/1.01. **Viola odorata** (Sweet Violet) (Fioled Bêr). Cymmer Tip, SS863 972, Barry Stewart, 8th Feb 2020.

- +061/2.09×01. **Salix ×smithiana** (**S. viminalis** × **S. caprea**) [**S. ×sericans**] (Broad-leaved Osier) (Helygen-wiail Lydanddail). Baglan Energy Park, SS737 927, Barry Stewart, 4th Sep 2020.
- +061/2.11×12. **Salix ×multinervis** (**S. cinerea** × **S. aurita**). Tylorstown (Cwm Rhondda Fach), ST005 963, B. Stewart & O. Krylova, 17th Jun 2020.
- +061/2.11×16. **Salix ×subsericea** (**S. cinerea** × **S. repens**). Port Mead Common (south-west), SS627 965, Barry Stewart, 3rd Oct 2020.
- +063/1.3. **Reseda lutea** (Wild Mignonette) (Melengu Wyllt Ddi-sawr). Ferndale, ST002 968, B. Stewart & O. Krylova, 17th Jun 2020.
- +075/28.01. **Sorbus aucuparia** (Rowan) (Criafolen). 1 km square SE of Moulton including Sutton Fach Farm, ST08 69, Rob & Linda Nottage, 19th Jul 2020.
- +‡077/02.1. **Galega officinalis** (Goat's-rue) (Nuw'r Geifr). North of Llanharan Concrete, SS999 823, Barry Stewart, 12th Jun 2020.
- +077/15.12. **Lathyrus nissolia** (Grass Vetchling) (Ytbyesen Feinddail). North of Llanharan Concrete, SS999 823, Barry Stewart, 12th Jun 2020.
- +077/19.20. **Trifolium striatum** (Knotted Clover) (Meillionen Rycho). Ferndale, ST002 970, B. Stewart & O. Krylova, 17th Jun 2020.
- +084/4.1×3.‡ **Oenothera [×] fallax** (**O. glazioviana** × **O. biennis**) (Intermediate Evening-primrose) (Melyn-yr-hwyr Canolig). Ferndale, ST001 971, B. Stewart & O. Krylova, 17th Jun 2020.
- +‡103/1.14. **Geranium pyrenaicum** (Hedgerow Crane's-bill) (Pig-yr-aran y Gwrych). 1 km square around Castell Moel NE of Llantrithyd, ST05 73, Rob & Linda Nottage, 22nd Apr 2020.
- +103/2.4. **Erodium lebelii** (Sticky Stork's-bill) (Pig-y-crëyr Ludiog). Swansea University campus (Crymlyn Burrows), SS699 926, Barry Stewart, 26th Jul 2020.
- +124/16.08. **Veronica montana** (Wood Speedwell) (Rhwyddlwyn y Coed). Bwlch Forestry, SS91 96, Charles Hipkin & Hilary Hipkin, 21st May 2020.
- +†124/16.19. **Veronica agrestis** (Green Field-speedwell) (Rhwyddlwyn-y-maes Gwyrdd). Cwmgwrach, SN86 05, Charles Hipkin & Hilary Hipkin, 16th Jul 2020.
- +124/20.05×07. **Euphrasia arctica** × **E. nemorosa**. Cwm Rhondda Fawr (Mynydd Ynysfeio), SS94 98, Charles Hipkin & Hilary Hipkin, 9th Oct 2020.
- +130/6.07. **Galium album** (Hedge Bedstraw) (Briwydd y Clawdd). Cwmafan, SS87 96, Charles Hipkin & Hilary Hipkin, 5th Jun 2020.
- +134/3.1. **Knautia arvensis** (Field Scabious) (Clafrllys y Maes). Lamby Way Pool, ST21 78, Rob & Linda Nottage, 5th Sep 2020.
- +135/25.01.16. **Taraxacum oxoniense** (Oxford Dandelion). Margam Landfill Site, SS777 842, Barry Stewart, 17th Nov 2020.
- *135/25.09.118 **Taraxacum chlorofrugale** (A Dandelion). Maes Gwyn, Rhydypanyd, SN6680 0257, Richard Pryce, 23rd Apr 2021, bank on south side of pond. 1st VC Record. Specimen det by Prof. A.J. Richards in Nov.2021 who described this new taxon in *British & Irish Botany* **1**(2): 167-184, 2019.
- +‡135/27.4.a. **Pilosella praealta subsp. praealta**. Ferndale, ST001 971, Charles Hipkin & Hilary Hipkin, 8th Feb 2020.
- +135/28.08.136.‡ **Hieracium sublepistoides** (Grey-bracted Hawkweed). Mynydd Resolven, SN86 02, Charles Hipkin & Hilary Hipkin, 8th Feb 2020.

135/33.6.© **Gnaphalium luteoalbum** (Jersey Cudweed) (Edafeddog Felynwen). Cardiff, ST1816 7374, Gareth Stamp, 1st Jul 2021, c100 plants. Previous vc record was made by J.Storrie from Cardiff East Moors, ST27, in 1876.

+†135/56.1. **Glebionis segetum** (Corn Marigold) (Melyn yr ^d). Dismantled Railway, Bryn, SS80 91, Charles Hipkin & Hilary Hipkin, 21st Jul 2020.

+‡135/58.lac×max. **Leucanthemum lacustre** × **L. maximum** = **L. ×superbum** (Shasta Daisy) (Y Llygad-llo Mwyaf). Hensol Forest (Mynydd y Glew), ST03 76, Rob & Linda Nottage, 28th Jul 2020.

+‡153/12.15. **Festuca brevipila** (Hard Fescue) (Peiswellt Caled). North of Llanharan Concrete, SS999 823, Barry Stewart, 12th Jun 2020.

+153/46.1.‡ **Polypogon monspeliensis** (Annual Beard-grass) (Barfwellt Unflwydd). North of Llanharan Concrete, SS999 823, Barry Stewart, 12th Jun 2020

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

□+001/3.1. **Lycopodium clavatum** (Stag's-horn Clubmoss) (Cnwp-fwsogl Corn Carw). Llangoed Common, SO09 38, Julie Bell, 14th Oct 2021, a substantial population.

+004/1.4×5. **Equisetum fluviatile** × **E. arvense** = **E. ×litorale** (Shore Horsetail) (Marchrawnen y Glennydd). Coed-hir, SO05 14, Anne Griffiths, Joan Millard & Sue Goodhead, 29th Sep 2021.

+017/1.1. **Polystichum setiferum** (Soft Shield-fern) (Gwrychredynen Feddal). Nant yr Esgair, SN81 62, John Crellin & Sue Goodhead, 8th Sep 2021.

□+036/2.1. **Parietaria judaica** (Pellitory-of-the-wall) (Paladr y Wal). Maesllech, SN93 49, John Crellin, Sue Goodhead, Joan Millard & Arlene Jones, 20th Oct 2021, one plant on church steps.

+‡040/2.3.© **Alnus cordata** (Italian Alder) (Gwernen yr Eidal). Ty Ysgybor, SO24 18, John Crellin, Steph Coates, Anne Griffiths, Arlene Jones, Sue Goodhead, Joan Millard & Alan Salter, 12th May 2021.

+046/10.1. **Sagina nodosa** (Knotted Pearlwort) (Corwlyddyn Clymog). Road Verge near Flag 17, SN94 44, John Crellin, 18th Aug 2021, a few scattered plants.

+065/12.5. **Erica cinerea** (Bell Heather) (Grug y Mël). Pontsticill, SO06 11, Andrew King, 4th Aug 2021, just north of Twynau Gwynion.

□+065/13.1. **Vaccinium oxycoccos** (Cranberry) (Llygaeren). Near mountain road, SO16 13, John Crellin, 25th Jun 2021.

+‡074/08.1. **Tellima grandiflora** (Fringecups) (Clychau'r Clawdd). Llwynderw, SN84 51, John Crellin, Steph Coates, Ben Mullen & N Coates, 4th Jul 2021.

+075/08.14.321. **Rubus caesius** (Llwyn Mwyar Mair). Corryn, SN96 48, John Crellin, Anne Griffiths, Arlene Jones, Sue Goodhead, Joan Millard & Claire Halpin, 18th Aug 2021.

+‡075/22.14. **Prunus laurocerasus** (Cherry Laurel) (Coeden Lawrgeirios). Nant Ganol, SO22 33, Anne Griffiths & Joan Millard, 1st Feb 2022.

+†075/26.2. **Pyrus pyraister** (Wild Pear) (Coeden Ellyg Gwyllt). Cefnllysgwynne, SN99 50, Andy Shaw, 22nd Dec 2021, two large trees, lots of sapling trees in immediate area.

+077/19.13. **Trifolium micranthum** (Slender Trefoil) (Meillionen Hopysaidd Eiddil). Near Nant Rhydlyd, SN81 62, John Crellin & Sue Goodhead, 8th Sep 2021; (+) Brechfa

common, SO11 38, John Crellin, Sue Goodhead, Anne Griffiths, Joan Millard & Alan Salter, 23rd Jun 2021.

+114/1.1.‡ **Polemonium caeruleum** (Jacob's-ladder) (Ysgol Jacob). Llandefalle churchyard, SO10 35, John Crellin, Sue Goodhead & Alan Salter, 13th Jun 2021.

+†117/1.1. **Verbena officinalis** (Vervain) (Y Ferfain). Talgarth river bank, SO15 33, John Crellin. Sue Goodhead, Joan Millard, Arlene Jones & Tess Lister, 15th Sep 2021.

+121/1.1. **Plantago coronopus** (Buck's-horn Plantain) (Llyriad Corn Carw). Near mountain road, SO16 13, John Crellin, 25th Jun 2021.

+124/02.2. **Scrophularia auriculata** (Water Figwort) (Gwrnerth y Dŵr). Nant-ystalwyn, SN80 57, John Crellin, Steph Coates, Ben Mullen & N Coates, 5th Jul 2021.

+124/05.1. **Limosella aquatica** (Mudwort) (Lleidlys). Llangoed Common W, SO08 38, Ray Woods, Claire Halpin & Anne Griffiths, 10th Nov 2021.

+†124/12.1. **Kickxia elatine** (Sharp-leaved Fluellen) (Llyisiau-Llywelyn). Verge opposite School, SO15 34, John Crellin, 15th Sep 2021.

+124/25.1. **Pedicularis palustris** (Marsh Lousewort) (Melog y Waun). Near mountain road, SO16 13, John Crellin, 25th Jun 2021.

□+135/43.6 **Erigeron acris** (Blue Fleabane) (Amrhydlywd Glas). Woodland by Reservoir, SO05 13, Sue Goodhead, Joan Millard & Anne Griffiths, 22nd Sep 2021.

+†135/59.1. **Matricaria chamomilla** (Scented Mayweed) (Amranwen Bêr). Corryn, SN96 48, John Crellin, Anne Griffiths, Arlene Jones, Sue Goodhead, Joan Millard & Claire Halpin, 18th Aug 2021.

+‡147/2.1. **Lysichiton americanus** (American Skunk-cabbage) (Pidyn-y-gog Americanaidd). Llwynderw, SN84 51, Steph Coates, 4th Jul 2021.

+‡147/5.2. **Arum italicum** (Italian Lords-and-Ladies) (Pidyn-y-gog Eidalaid). Castle Farm, SO09 24, John Crellin, Anne Griffiths, Arlene Jones, Sue Goodhead, Joan Millard & Alan Salter, 7th Apr 2021, small clump on extended canal bank.

+ **Trichophorum germanicum agg.** (NP.). Mynydd Llyisiau, SO20 27, Anne Griffiths, 10th Jun 2021.

+152/16.54. **Carex montana** (Soft-leaved Sedge) (Hesgen Feddal). Near ford on the Tywi, SN81 60, John Crellin, 5th Jul 2021.

152/9.1. **Eleogiton fluitans** (Floating Club-rush) (Clwbfrwynen Arnofiol). Brechfa Pool, SO11 37, Andy Shaw, 14th Jun 2021, first hectad (and site) record since 1968.

+153/11.1. **Milium effusum** (Wood Millet) (Miledwellt y Coed). Wern Fawr, SN97 27, John Crellin, Anne Griffiths, Arlene Jones, Sue Goodhead & Joe Daggett, 14th Jul 2021.

+‡153/28.5.© **Avena sativa** (Oat) (Ceirchen). Llangoed Common W, SO08 38, Ray Woods, Claire Halpin & Anne Griffiths, 10th Nov 2021.

+†153/52.3. **Anisantha sterilis** (Barren Brome) (Pawrwellt Hysb). Gochcarreg, SN87 23, Christopher J. Dixon, 8th Jun 2021.

+154/1.1. **Sparganium erectum** (Branched Bur-reed) (Cleddlys Canghennog). Pond at Llwn Derw, SN84 51, John Crellin, Steph Coates, Ben Mullen & N Coates, 4th Jul 2021.

+159/05.08.‡ **Iris foetidissima** (Stinking Iris) (Gellesgen Ddrewllyd). Cwmdu, SO17 23, Anne Griffiths, Joan Millard & Sue Goodhead, 23rd Feb 2022.

□+162/05/1. **Neottia nidus-avis** (Bird's-nest Orchid) (Tegeirian Nyth Aderyn). Caer Beris hotel grounds, SO03 50, R Gibbins, 2nd Jun 2021.

+162/18.4. **Dactylorhiza praetermissa** (Southern Marsh-orchid) (Tegeirian-y-gors Deheuol). Pont Rhydybetws, SO01 25, Anne Griffiths & Julie Bell, 1st Jul 2021.

+162/18.5. **Dactylorhiza purpurella** (Northern Marsh-orchid) (Tegeirian-y-gors Gogleddol). Near mountain road, SO16 13, John Crellin, 25th Jun 2021

RADNOR, v.c.43 (comm. E.R.Dean)

‡023/1.1.fas. **Taxus baccata f. fasciculata** (Irish Yew). Old Radnor, SO24 59, E. R. Dean & S. M. Spencer, 1st Jun 2021, around churchyard and roads nearby; Whitton Churchyard, SO27 67, J. Ockenden & P. Marshall, 13th Jun 2021.

⊗036/2.1. **Parietaria judaica** (Pellitory-of-the-wall) (Paladr y Wal). Between pavement and wall, Presteigne, SO31 64, E.R. Dean & S.M. Spencer, 4th Jan 2022.

+047/1.12. **Persicaria lapathifolia** (Pale Persicaria) (Canwraidd y Dom). Cloggie, SO22 71, J. Ockenden & P. Marshall, 15th Aug 2021, hill farm, approx. 1,000 feet up.

061/1.3.a. **Populus nigra subsp. betulifolia** (a subspecies of Black-poplar). Laneside, Llandegley Mill, SO14 63, J. Ockenden & P. Marshall, 23rd Jun 2021, collapsed tree with new shoots.

‡075/12.1. **Potentilla indica** (Yellow-flowered Strawberry) (Llwyn Mefus Melyn). Clyro Church, SO213 438, R.G. Woods, 22nd Oct 2021, churchyard grassland under yew.

*‡102/1.14. **Oxalis incarnata** (Pale Pink-sorrel) (Suran Welw). Newbridge on Wye, near Wye Bridge, SO015 583, R.G. Woods & F.S. Slater, 10th Sep 2021, edge of path in garden.

+‡147/2.1. **Lysichiton americanus** (American Skunk-cabbage) (Pidyn-y-gog Americanaidd). In a roadside ditch, Kinnerton Court, SO24 62, A. McCarthy, det. E.R. Dean, 7th May 2021, six plants.

*‡147/5.2. **Arum italicum** (Italian Lords-and-Ladies) (Pidyn-y-gog Eidalaid). Road verge, NE of Clyro, SO216 443, R.G. Woods, 23rd Dec 2021.

+‡158/18.umb.cam. **Ornithogalum umbellatum subsp. campestre**. Whitton Churchyard, SO27 67, J. Ockenden & P. Marshall, 13th Jun 2021.

162/05/1. **Neottia nidus-avis** (Bird's-nest Orchid) (Tegeirian Nyth Aderyn). Worzel Wood, SO26 57, J. Jones, 19th Jun 2021, woodland, by dormouse boxes.

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

001/3.1. **Lycopodium clavatum** (Stag's-horn Clubmoss) (Cnwp-fwsogl Corn Carw). Nant-y-Mwyn lead mine site, SN788 445, Cambrian Mountains Society meeting, det. G.& P.Foulkes, 11th Jul 2021, acid heath associated with old mine spoil. Previously, only detached fragments of this species have been found at this site.

+033/1.1×3.‡ **Ulmus ×vegeta** (Huntingdon Elm) (Llwyfen Huntingdon). St Clears Parish Church, SN2816 1575, R.D.Pryce, 26th Jul 2021, tree in hedgerow boundary of churchyard and suckering into adjacent fen. Several additional trees in other hedgerows in the vicinity.

+046/25.7. **Dianthus armeria** (Deptford Pink) (Penigan y Porfeydd). Cefn Meurig, north of Pont-y-Fenni, SN2391 1890, M.Sutton, 6th Sep 2021, two rosettes in the car park and a total of nine in the courtyard; all plants about 6 inches tall.

+‡047/3.1. **Fagopyrum esculentum** (Buckwheat) (Gwenith yr Hydd). Railway Place, Seaside, Llanelli, SS50080 99640, I.K.Morgan, 18th Sep 2021, in neglected overgrown garden.

+047/4.? **Polygonum polycnemiforme** (Bushy Knotgrass). Blaengilfach, Rhos, SN3721 3555, WWBIC recording meeting, det. R.D.Pryce & K.A.Pryce, 21st Jul 2021, garden weed.

+047/4.den **Polygonum denudatum**. Heol Rhosyn, Dafen, SN5284 0197, R.D.Pryce, 3rd Sep 2021, at north-west edge of recently constructed development plateau.

+‡051/1.03×04. **Hypericum ×inodorum** (Tall Tutsan) (Dail-y-Beiblau Tal). Pleasant View, Hebron, SN1797 2764, C.Maynard, 10th Aug 2021, two young plants, one in flower in a wild margin, one in bud growing in a recently constructed drystone bank. Neither were human planted, but there are several mature examples that look human planted in other gardens nearby; (+) Site of Emlyn Colliery, Penygroes, SN5815 1347, R.D.Pryce, 23rd Jun 2021, seven plants of garden escape/self-sown *Hypericum x inodorum* on vegetated mine spoil bund colonised by willow scrub. Also by old colliery buildings at SN58091323.

+057/1.04×05. **Viola ×bavarica**. Cilcatw, Felingwm, SN516 264, T.Greenaway, 22nd Apr 2021, in hedgebank: *V.reichenbachiana* nearby and *V.riviniiana* frequent in Felingwm.

+064/1.1. **Empetrum nigrum** (Creiglusen). Site of former Emlyn Colliery, Penygroes, SN58074 13337, R.D.Pryce, 26th Aug 2021, one 30cm x 20cm plant in dryish *Campylopus introflexus* moss-dominated vegetation on colliery spoil undisturbed for about 10 years. Only plant seen over whole site.

+‡074/08.1. **Tellima grandiflora** (Fringecups) (Clychau'r Clawdd). Dan y banc, Cwm Morgan, SN29463 34844, R.D.Pryce & K.A.Pryce, 7th May 2021, well naturalized on damp bank in humid valley.

+‡075/22.03. **Prunus cerasifera** (Cherry Plum) (Coeden Goeg-geirios). Glyn Glas restored opencast site, Llandybie, SN6098 1505, K.McGinn, 15th May 2021, originally planted (30-40 years ago) in hedgerow dividing pasture fields.

‡075/28.21. **Sorbus croceocarpa** ([Orange-berried Whitebeam]) (Cerddinen Ffrwythau Saffrwm). Adjacent to Clappers Wood, Mynydd Penbre, east of Trimsaran, SN46461 04327, Ian K. Morgan, det. T.C.G.Rich (from photos), 4th Jun 2021, one tree at least 10m high growing out of a rocky bank overshadowed by a large oak.

+‡075/32.39. **Cotoneaster franchetii** (Franchet's Cotoneaster) (Cotoneaster Franchet). Back-lane of Felinfoel Road between Ty'r Fran Avenue, Llanelli, SN51121 01397, I.K.Morgan, 19th Aug 2021, a large, established bird-sown plant. This *Cotoneaster* is, along with *C. horizontalis*, the most common naturalised (invariably bird-sown) species in and around Llanelli.

+‡077/02.1. **Galega officinalis** (Goat's-rue) (Nuw'r Geifr). Llanelli bus station (Eastgate), SN50959 00404, I.K.Morgan, 27th Jun 2021, self-sown in narrow strip planted with low amenity shrubs.

+077/14.08. **Vicia tetrasperma** (Smooth Tare) (Ffacbysen Lefn). Brechfa community garden, SN524 303, T.Greenaway, 6th Jul 2021, rough grassland.

+077/14.12. **Vicia lathyroides** (Spring Vetch) (Ffacbysen y Gwanwyn). Carreg Sawdde Common, Llangadog, SN7060 2758, R.D.Pryce & K.A.Pryce, 15th May 2021, on vegetated shingle area cleared of gorse scrub on left bank of river upstream of bridge.

+077/15.03. **Lathyrus linifolius** (Bitter-vetch) (Ytbysen y Coed). Beilibedw, Llanllwni, SN49524 40916, R.D.Pryce & K.A.Pryce, 2nd May 2021, bottom of hedge on south-west side of road.

+084/1.03×08. **Epilobium ciliatum** × **E. montanum** L.. Site of former Emlyn Colliery, Penygroes, SN5850 1343, R.D.Pryce, 23rd Aug 2021, in area of fly tipping and disturbed

ground behind houses.

+‡093/1.1.© **Vitis vinifera** (Grape-vine) (Gwinwydden). North side of Old Priory field, Carmarthen, SN41922 20540, I.K.Morgan, 21st Jun 2021, well established in hedge.

+093/2.2. **Parthenocissus inserta** (False Virginia-creeper) (Dringwr Fflamgoch Ffug). Pembrey Burrows sewage works, SS41480 99965, I.K.Morgan, 27th Sep 2021, on walls etc.

*103/1.05. **Geranium sylvaticum** (Wood Crane's-bill) (Pig-yr-aran Coed). Glyn Glas restored opencast site, Llandybie, SN6098 1505, K.McGinn, 15th May 2021, more than 100 plants over a 13m stretch of the west-northwest facing side of a field hedgebank. First Carms record outside garden or urban planting.

+103/1.15. **Geranium pusillum** (Small-flowered Crane's-bill) (Pig-yr-aran Fân-flodeuog). Lane between Market Street and Stepney Street, Llanelli, SN50823 00376, I.K.Morgan, 27th Jun 2021, one plant growing on the site of the demolished 'Siop y Werin' Welsh bookshop; also in the lane at the side of Market Street at SN 50824 00376 and in the lane at rear of Andrew Street at SN 51028 00650.

107/19.1. **Oenanthe fistulosa** (Tubular Water-dropwort) (Cegiden Bibellaidd). St Clears. riverside fen south of A40 dual-carriageway, SN282 158, Richard D.Pryce, 26th Jul 2022, 5+ populations at this grid ref, also at SN 281 158.

+107/20.1. **Aethusa cynapium** (Fool's Parsley) (Geuberllys). Blaengilfach, Rhos, SN3733 3556, WWBIC recording meeting, det. R.D.Pryce & K.A.Pryce, 21st Jul 2021, disturbed soil in agriculturally improved field being allowed to revert.

+©107/ANE.gra. **Anethum graveolens** (Dill) (Llysiau'r Gwewyr). Penywarc Road, Llanelli, SN51789 00220, I.K.Morgan, 14th Aug 2021, in disturbed 'humus-deficient dark urban soil'.

+‡115/1.1. **Phacelia tanacetifolia** (Phacelia) (Ffaselia). Old Priory Road allotments, Carmarthen, SN4185 2051, I.K.Morgan, 21st Jun 2021. Persisting from plants that were originally sown.

+‡116/03.1. **Pulmonaria officinalis** (Lungwort) (Llysiau'r Ysgyfaint). Betws Park, Ammanford, SN6322 1204, I.K.Morgan, 19th May 2021, two plants on bank near main entrance to park.

+116/15.10.dub. **Myosotis discolor subsp. dubia**. Pwll Recreation Ground, SN47331 01019, R.D.Pryce & K.A.Pryce, 8th Jun 2021, in conservation area mown just once or twice per year; (+) Tregyb, Llandeilo, SN6366 2154, R.D.Pryce, K.A.Pryce, R.Carmichael & G.Hellier, det. R.D.Pryce & K.A.Pryce, 2nd Jun 2021, in rush dominated field owned by the Woodland Trust.

+‡118/07.1. **Phlomis russeliana** (Turkish Sage) (Saets Twrci). Seaside, Llanelli, SS49956 99454, A.Leeuwerke, det. I.K.Morgan, 24th Jun 2021, persisting for 10+ years originally from landscape plantings (first observed by I.K.Morgan).

+124/01.09.‡ **Verbascum nigrum** (Dark Mullein) (Pannog Dywyll). Hebron Farm Cottages, Hebron, SN1805 2766, C.Maynard, 10th Aug 2021, single plant in flower and seed, the main stem at least 1.8m tall on open, south-facing bank. No other plants seen in area.

+124/16.12. **Veronica catenata** (Pink Water-Speedwell) (Graeanllys-y-dwr Rhosliw). Site of former Emlyn Colliery, Penygroes, SN58450 13524, R.D.Pryce, 23rd Aug 2021, seven plants varying from 5cm to 40cm across growing in wet area and through dumped tarmac.

Also c.20 plants in ephemeral wet, disturbed area at SN58311331.

124/23.1. **Parentucellia viscosa** (Yellow Bartsia) (Gorudd Melyn). SE of Ashpits Pond, Pwll, SN46428 00882, Veronica Haines, det. R.D.Pryce, 17th Aug 2021, two flower stems - one 1m+ tall, the other c.0.75m, growing c.1m north of the path in rank tall-herb vegetation. Located about half-way between the populations in Pembrey Forest (c.5km west) and the Welsh Wetlands Centre at Penclacwydd (c.7m east).

124/25.1. **Pedicularis palustris** (Marsh Lousewort) (Melog y Waun). Cynheidre, SN4953 0715, Llanelli Naturalists, det. R.D.Pryce & K.A.Pryce, 1st Aug 2021, several plants in fen meadow. 1st post-2000 hectad record.

+132/1.1. **Adoxa moschatellina** (Moschatel) (Mwsglys). West of Penygraig, Llanllwni, SN50770 40469, R.D.Pryce & K.A.Pryce, 2nd May 2021, roadside hedge.

135/05.4. **Carduus nutans** (Musk Thistle) (Ysgallen Bendrom). Carreg Sawdde Common, Llangadog, SN6993 2808, Laura Moss, det. R.D.Pryce, 24th Jun 2021, extension of range to north of the commonland and into the adjacent hectad.

+†135/12.1. **Cichorium intybus** (Chicory) (Ysgello). Llwyn-Derw, Hebron, SN1760 2746, C.Maynard, 24th Jul 2021, western corner of large blueberry patch in open, agricultural field.

+†135/17.1. **Helminthotheca echioides** (Bristly Oxtongue) (Tafod-y-llew Gwrychog). Llwyn-Derw, Hebron, SN1760 2746, C.Maynard, 24th Jul 2021, western corner of large blueberry patch in open, agricultural field.

+135/24.1. **Mycelis muralis** (Wall Lettuce) (Gwylaeth y Fagwyr). Blaengilfach, Rhos, SN3725 3555, WWBIC recording meeting, det. R.D.Pryce & K.A.Pryce, 21st Jul 2021, in walls in farmyard, also on green roof of large circular shelter.

+135/25.07.54. **Taraxacum berthae** (Bertha's Dandelion). Nant Cwmtawe ravine, Mynydd Du, SN69101 18738, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 30th May 2021, in flush by stream. Also at SN 68919 18505, **NMW**

+135/25.07.55. **Taraxacum bracteatum** (Dark-green Dandelion). SE of Esgerholiw, SN50028 25350, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 27th Apr 2021, growing on hedgebank on south side of road, **NMW**

+135/25.07.56. **Taraxacum britannicum** (British Dandelion). West of Delfryn, Meidrim, SN34252 21210, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 10th Apr 2021, on unshaded grassy bank below low-cut hedge on north side of road, **NMW**; (+) Road junction west-northwest of Troed-yr-orfa, Pencader, SN43127 36889, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 17th Apr 2021, south-east side of road junction at base of south-west facing bank below low-cut hedge. **NMW**

+135/25.07.58 **Taraxacum cambricum** (Welsh Dandelion). Pontgarreg, SN27886 37317, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 7th May 2021, on top of stone-faced bank under mature Sitka Spruce tree, **NMW**; (+) Penprys Roundabout, Llanelli, SN54239 01860, R.D.Pryce, det. Prof.A.J.Richards, Nov.2021, 6th Apr 2021, on mossy tarmac surfaced track to field gate quite close to gate, **NMW**

+135/25.07.59 **Taraxacum celticum** (Celtic Dandelion). South of Newfoundland Farm, Bethlehem, SN67214 24116, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 15th May 2021, on bank on north-east side of road, **NMW**

+135/25.07.62. **Taraxacum fulgidum** (Bright Dandelion). Rhydyglyn, north-east of Abergorlech, SN60903 35877, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021,

3rd Apr 2021, in regularly mown, wide, nutrient-rich, neutral grassland roadside verge on north-west side of road. 2nd VC Record, **NMW**
+135/25.08.101. **Taraxacum subhamatum** (Large Hook-lobed Dandelion). West of Penllwydcoed, Pencader, SN45317 32834, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 17th Apr 2021, from north side of road at base of south facing bank with low-cut gappy hedge. **NMW**
+135/25.08.84. **Taraxacum atactum** (Narrow-bracted Dandelion). Penrheol Isaf, Capel Iwan, SN28665 36443, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 7th May 2021, stone faced bank on south side of road. Also on grassy bank on east side of road south of Bryn Sion Chapel, Cenarth, SN 25391 39946, **NMW**
+135/25.08.85. **Taraxacum boekmanii** (Bokman's Dandelion). Beilibedw, Llanllwni, SN49524 40916, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 2nd May 2021, on road verge, SW side of road, **NMW**
+135/25.08.88. **Taraxacum hamatulum** (Slender Hook-lobed Dandelion). East of Tirdomen, Cwrt Henry, SN54665 22721, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 27th Apr 2021, in wide grassy verge on south side of road. **NMW**
+135/25.08.89 **Taraxacum hamatum** (Hook-lobed Dandelion). Rhoswen Windfarm, Pencader, SN46700 33286, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 17th Apr 2021, on south side of track on wide acid grass verge of fenced forestry and wind turbine access track by sheep handling compound. **NMW**
+135/25.08.90. **Taraxacum hamiferum** (Dark Hook-lobed Dandelion). Pontgarreg, SN27853 37346, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 7th May 2021, on south-west side of road. **NMW**
+‡135/25.08.92. **Taraxacum lamprophyllum** (Lustrous-leaved Dandelion). Beilibedw, Llanllwni, SN49573 40899, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 2nd May 2021, on south side of road under newly planted hawthorn hedge, **NMW**
+‡135/25.08.93. **Taraxacum lancidens** (Spear-toothed Dandelion). North-east of Maes-pant, Cwrt Henry, SN55178 24993, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 3rd Apr 2021, on grassy bank below hedge on west side of road, **NMW**
+135/25.08.98. **Taraxacum pseudohamatum** (False Hook-lobed Dandelion). Near Towerhill Farm, SN26970 38386, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 7th May 2021, on east side of road, **NMW**; (+) North-east of Groesffordd, SN31525 36037, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 7th May 2021, on north-west side of road, **NMW**; (+) Tir-Ifan-Ddu, Llanfynydd, SN57980 28178, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 3rd Apr 2021, on south-facing vertical vegetated bank below hedge on north-west side of road. **NMW**; (+) Pistyll South junction, Llanfynydd, SN59197 29019, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 3rd Apr 2021, on south-facing grassy bank below low-cut hedge on north-northwest side of road junction, **NMW**; (+) East of Gors, Bethlehem, SN68021 23401, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 15th May 2021, on southern edge of road at foot of bank, **NMW**
+135/25.08.sah. **Taraxacum sahlinianum** (Sahlin's Dandelion). Penrheol Isaf, Capel Iwan, SN28655 36448, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 7th May 2021, on bank on north side of road in dappled shade of large Beech and Ash trees, **NMW**

+‡135/25.09.102 **Taraxacum aberrans** (Apiculate-lobed Dandelion). Near Beili-Ficer, Llansawel, SN63621 36827, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 24th Apr 2021, on hedgebank adjacent to 2m wide verge, north side of road, **NMW**

+135/25.09.108. **Taraxacum alatum** (Green Dandelion). East of Pentrecelyn, Meidrim, SN32395 21367, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 10th Apr 2021, at base of bank above narrow wet ditch in shady vegetated cutting down to road through dingle woodland on north side of road, **NMW**; (+) Rhoswen Windfarm, Pencader, SN46674 33276, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 17th Apr 2021, south side of track on wide acid grass verge of fenced forestry & wind turbine access track by sheep handling compound. Also at SN 46665 33281, **NMW**

+‡135/25.09.109. **Taraxacum altissimum** (Tall Dandelion). Abercothi, SN50404 21026, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 27th Apr 2021, lane-side grass verge on east side of lane, **NMW**

*‡135/25.09.118 **Taraxacum chloroticum** (Spiky-leaved Dandelion). Banc Cwm-Hust plantation, Mynydd Llanybydder, SN53840 39618, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 24th Apr 2021, on north-east side of forestry track c.40m north-west of junction with public road. **NMW**

+135/25.09.120. **Taraxacum cophocentrum** (Rounded-lobed Dandelion). Station Road, Llangennech, SN56296 01520, K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 30th Apr 2021, garden weed in drive, **NMW**

+135/25.09.126. **Taraxacum stenoglossum** (Dahlstedt's Dandelion). West of Waun-hir, Bethlehem, SN66320 22621, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 15th May 2021, on 1.5m wide wet verge on south side of road below hedgebank adjacent to running ditch, **NMW**

+‡135/25.09.129. **Taraxacum dilaceratum** (Lacerate-leaved Dandelion). Garn Ganol, Crwbin, SN46966 12632, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 1st May 2021, in unimproved neutral grassland in Caer-yr-batry. 2nd VC Record, **NMW**

+135/25.09.131. **Taraxacum ekmanii** (Ekman's Dandelion). Garn Ganol, Crwbin, SN47012 12651, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 1st May 2021, in unimproved neutral grassland in Caer-yr-batry near centre of southern part of field, **NMW**; (+) West of Penygraig, Llanllwni, SN50670 40498, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 2nd May 2021, verge of large layby on N side of road, **NMW**

+135/25.09.133. **Taraxacum expallidiforme** (Broad-stalked Dandelion). South of Bryn Sion Chapel, Cenarth, SN25386 39936, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 7th May 2021, on grassy bank on east side of road, **NMW**; (+) West of Pantygof, Alltwalis, SN44561 29683, R.D.Pryce, det. Prof.A.J.Richards, Nov.2021, 17th Apr 2021, on north side of road on low bank below low cut hedge east of small layby, **NMW**

+135/25.09.143. **Taraxacum insigne** (Remarkable Dandelion). East of Troed-y-rhiw, Bethlehem, SN65411 22474, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 15th May 2021, on south side of road, **NMW**

+‡135/25.09.144. **Taraxacum interveniens** (City Dandelion). East of Troed-y-rhiw, Bethlehem, SN65465 22489, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 15th May 2021, in verge on north side of road. 3rd VC record, **NMW**

+‡135/25.09.146. **Taraxacum lacerifolium** (Jagged-leaved Dandelion). Penprys Roundabout, Llanelli, SN54235 01785, R.D.Pryce, det. Prof.A.J.Richards, Nov.2021, 6th Apr 2021, on vegetated/overgrown kerb-line of short abandoned section of road, **NMW**; (+) North-east of Maes-pant, Cwrt Henry, SN55197 24970, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 3rd Apr 2021, on grassy bank below hedge on east side of road, **NMW**; (+) Pistyll South junction, Llanfynydd, SN59228 29043, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 3rd Apr 2021, on grassy verge/concrete pad below low-cut hedge on north-west side of road junction. **NMW**; (+) Carreg Sawdde Common, Llangadog, SN70512 27638, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 15th May 2021, below parapet at south-west end of bridge over Afon Sawdde on south side of road, **NMW**

+135/25.09.172. **Taraxacum oblongatum** (Oblong-leaved Dandelion). East of Abernaint-fawr, SN64839 35500, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 24th Apr 2021, on wide rutted verge under tall oaks in light shade on south side of road, **NMW**

+‡135/25.09.179. **Taraxacum pallidipes** (Grey-bracted Dandelion). Near Pant Farm, Meidrim, SN28192 20967, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 10th Apr 2021, on grassy verge below low-cut hedge on north side of road, **NMW**; (+) South of Glandwr, Cenarth, SN26220 41232, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 7th May 2021, narrow verge of small layby on east side of road, **NMW**; (+) East of Blaen-y-coed, SN35850 26950, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 17th Apr 2021, on south-east facing roadside bank below uncut hedge bounding mature conifer plantation on north-west side of road. **NMW**

+135/25.09.197. **Taraxacum sellandi** (Selland's Dandelion). Beilbedw, Llanllwini, SN49536 40906, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 2nd May 2021, road verge on south-west side of road below quite low cut hedge, **NMW**; (+) North of Bryniau-isaf, Rhydymerau, SN58919 39653, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 24th Apr 2021, on east side of road to north of junction with Maesteile entrance track, **NMW**

*‡135/25.09.198. **Taraxacum semiglobosum** (Hairy-ribbed Dandelion). South-east of Eserholiw, near Felingwm, SN50041 25344, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 27th Apr 2021, hedgebank on south side of road, **NMW**

+‡135/25.09.202. **Taraxacum stereodes** (Hairy-stalked Dandelion). Garn Ganol, Crwbin, SN46815 12489, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 1st May 2021, from south-west end of Llain Sur, unimproved neutral grassland meadow, **NMW**

*‡135/25.09.205. **Taraxacum subhuelphersianum** (Light-green Dandelion). South of St Michaels Church St Clears, SN30012 16776, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 10th Apr 2021, on grassy bank on west side of road north of isolated holly tree, **NMW**

*‡135/25.09.214. **Taraxacum trilobatum** (Three-lobed Dandelion). Nr Lower Court, St Clears, SN30156 14548, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 10th Apr 2021, on grassy bank above wet ditch on south side of road, **NMW**

+‡135/25.09.215. **Taraxacum tumentilobum** (Swollen-lobed Dandelion). Edwinsford picnic site layby, SN63349 34590, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 3rd Apr 2021, in regularly mown neutral grassland amenity area, **NMW**

+135/25.09.217. **Taraxacum undulatum** (Wavy-leaved Dandelion). Picton Ferry Railway Bridge, St Clears, SN27540 17299, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 10th Apr 2021, in grass verge on west side of road 2m north of low bridge sign, **NMW**

*135/25.09.118 **Taraxacum chlorofragale** (A Dandelion). East of Abernaint-fawr, SN64869 35489, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 24th Apr 2021, on grassy hedgebank on north side of road. 13th VC record of this recently described taxon, **NMW**; (+) Carreg Sawdde Common, Llangadog, SN70591 27595, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 15th May 2021, at edge of riverside gorse scrub on shingle. 14th VC record of this recently described taxon, **NMW**

+‡135/25.09.sun. **Taraxacum sundbergii** (Sundberg's Dandelion). Dan y banc, Cwm Morgan, SN29445 34848, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 7th May 2021, on road edge between road and north bank of stream, **NMW**; (+) South of Ty-ros, Llangynog, SN31761 13812, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 10th Apr 2021, from bottom of vertical bank on west side of road, **NMW**; (+) Entrance to Tower Plantation, SN49573 35292, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 2nd May 2021, from verge on west side of forest track. **NMW**

*135/25.sev **Taraxacum severum**. Entrance to Nantgyrdinen, Cynwyl Elfed, SN38899 30594, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 17th Apr 2021, on west-facing roadside bank south of gateway on east side of road. 5th VC record but 1st since T. 'non-severum' was accepted by AJR as T. severum, **NMW**; (+) Near Blaengors, Pontarsais, SN43497 27268, R.D.Pryce & K.A.Pryce, det. Prof.A.J.Richards, Nov.2021, 17th Apr 2021, on east side of road, south of entrance into manure storage area on disturbed verge under shade of overgrown roadside treeline/hedge. 6th VC record, 2nd since T. 'non-severum' was accepted by AJR as T. severum, **NMW**

+135/28.01.4.‡ **Hieracium salticola** (Bluish-leaved Hawkweed). RAF Range, Tywyn Burrows, SN364 050, T.C.G.Rich, 27th Aug 2021, dry dune grassland.

+135/43.flo. **Erigeron floribundus**. Coygen Quarry, Laugharne, SN28 09, R.D.Pryce, 21st Oct 2021, frequent on bare and spoil areas of quarry.

+135/48.3. **Tanacetum vulgare** (Tansy) (Tansi). Hebron, SN17915 27593, C.Maynard, 29th Aug 2021, a single plant in flower and seed on roadside outside Dol Barcun.

‡135/71.3. **Petasites albus** (White Butterbur) (Alan Bach). Abercamlais, south of Cilycwm, SN75478 38873, I.Macho, det. R.D.Pryce, 8th Mar 2021, well naturalized on roadsides adjacent to, and opposite house. Rediscovery of J.R.Gates' record of 1972.

+‡135/79.1. **Helianthus annuus** (Sunflower) (Blodyn yr Haul). St Clears Parish Church, SN28140 15737, R.D.Pryce, 26th Jul 2021, one small plant in flower in stonework half-way up west-facing wall of church tower.

*151/1.03. **Juncus compressus** (Round-fruited Rush) (Brwynen Ffrwythgron). Morfa Uchaf, north of Ferryside, SN37013 11891, J.Darke, 30th Jun 2021, extensive population over at least 50m x 10m in top saltmarsh zone. **NMW**. See image 9, page 59.

+152/16.com **Carex comans** (New Zealand Hair-sedge). New housing estate, Machynys, Llanelli, SS50521 98367, I.K.Morgan, 18th Jun 2021, at base of wall outside garden.

+153/11.1. **Milium effusum** (Wood Millet) (Miledwellt y Coed). Keepers, Brechfa Forest, SN523 319, T.Greenaway, 20th Aug 2021, woodland edge.

+153/12.03. **Schedonorus gigantea**. South of Glandwr, Cenarth, SN26198 41184, R.D.Pryce & K.A.Pryce, 7th May 2021, by gateway to field on east side of road.

*153/14.4.b. **Vulpia ciliata subsp. ambigua**. East of the ski slope, Pembrey Country Park, SN41069 00109, M.Sutton & M.Pickard, 11th Jun 2021, abundant over an area of c.10m² in NVC SD19 Phleum arenarium - Arenaria serpyllifolia annual dune vegetation community. Also a small patch in similar vegetation at SS41229964. Det. by M.Sutton & M.Pickard and confirmed by Arthur Copping in letter dated 25/6/2021. First VC records. Discovered during surveying for the Sands of LIFE project led by Plantlife, **NMW**

+‡153/17.3 **Briza maxima** (Greater Quaking-grass) (Crydwellt Mawr). Bryn Road, Glanamman, SN67414 13526, E.Wilberforce, det. R.D.Pryce, 26th Jun 2021, growing along the pavement edge at the wall interface.

+©153/60.tur. **Triticum turgidum** (Rivet Wheat) (Gwenith Barfog). Llanelli bus station (Eastgate), SN5104 0045, I.K.Morgan, 27th Jun 2021, presumably derived from bird feed; also at the corner of Upper William Street at SN 51108 00390.

155/1.2. **Typha angustifolia** (Lesser Bulrush) (Cynffon-y-gath Gulddail). Cynheidre, SN4955 0722, Llanelli Naturalists meeting, det. R.D.Pryce, 1st Aug 2021, two stands on margin of lake constructed c.70 years ago. Rediscovery of record made by S.B.Evans on 10/10/1972.

+‡158/32.wor. **Galanthus woronowii** (Green Snowdrop). Penlan-isaf near Bynea, SS5616 9970, I.K.Morgan, det. R. & R.Wallis, 5th Mar 2021, well naturalized on north-facing roadside bank with *G. nivalis* and *Scilla bifolia*. Determined as *G. woronowii* by Bob and Rannviog Wallis who commented “We are pretty certain that this is *G. woronowii* - a native of Georgia and adjacent NE Turkey. It has been widely introduced into this country through the bulb trade. The important characters are: supervolute vernation (i.e. the two leaves are wrapped around each other as they emerge from the soil), broad shiny bright green leaves, the single green mark on the inner tepals occupies less than half of the segment and a sinus (notch) is present at the tip of the inner tepals”; (*) Dolwerdd, Capel Seion, near Pontyberem, SN51606 12801, R. & R.Wallis, 7th Mar 2021, a few plants in a hedge bank - presumably a garden throw out.

*‡158/33.bic. **Narcissus bicolor** (Two-coloured Daffodil). Near Banc-y-Mansel, SN52341 15051, R. & R.Wallis, 7th Mar 2021, a very small clump in roadside hedge: probably a garden escape or originally planted.

+159/05.08. **Iris foetidissima** (Stinking Iris) (Gellesgen Ddrewllyd). People`s Park, Llanelli, near fence, SN50431 00295, I.K.Morgan, 15th May 2021, in gap between semi-derelict buildings - presumably an old planting.

+‡159/13.1. **Crocsmia paniculata** (Aunt-Eliza) (Modryb Leusa). Side road north west from Hebron Chapel, SN1773 2807, C.Maynard, 10th Aug 2021, “a garden escape, but it looks very at home here in the country lane, far from a garden”.

162/05/1. **Neottia nidus-avis** (Bird's-nest Orchid) (Tegeirian Nyth Aderyn). Glan Gwenlais Quarry, Carmel Woods NNR, SN6046 2021, A.Davies, det. R.D.Pryce, 30th May 2021, 8 flowering spikes counted in open woodland on Carboniferous Limestone. 13 flowering plants counted by R.D.Pryce & K.A.Pryce on 2/6/22. 1st record for NNR, 2nd hectad record, 6th site in VC.

- +162/18.1×2. **Dactylorhiza ×transiens**. Waun Pella, Garn Ganol, Crwbin, SN47441 12630, R.D.Pryce & K.A.Pryce, 27th Jun 2021, in NVC MG5b neutral grassland area of field.
- +162/18.1×4. **Dactylorhiza ×grandis**. Ffos-y-broga, Cwrt Henry, SN5495 2322, A.Martin & H.Martin, det. R.D.Pryce, 5th Jun 2021, in middle field, reverting from past agricultural improvement.
- +162/18.2×4. **Dactylorhiza ×hallii**. Ffos-y-broga, Cwrt Henry, SN5495 2322, A.Martin & H.Martin, det. R.D.Pryce, 5th Jun 2021, in middle field, reverting from past agricultural improvement.
- +162/18.5. **Dactylorhiza purpurella** (Northern Marsh-orchid) (Tegeirian-y-gors Gogleddol). Cilcattw, Felingwm., SN516 264, T.Greenaway, 25th Jun 2021, single plant in field.
- 162/23.3. **Ophrys apifera** (Bee Orchid) (Tegeirian y Wenynen). The Green, Llansteffan, SN355 106, Dai Stacey, 13th Jun 2021, 27 spikes on dunes on seaward side of The Green. First record for this site. Also a couple of spikes of *Anacamptis pyramidalis* recorded, also new to the site

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

- +031/4.1. **Ceratocapnos claviculata** (Climbing Corydalis) (Mwg-y-ddaeare Dringol). Llethermadin, Llanycefn, SN1061 2315, S.B.Evans, 1st Jul 2021, open woodland glade.
- +046/07.11. **Cerastium pumilum** (Dwarf Mouse-ear) (Clust-y-llygoden Bitw). Limestone chip, Ward's Yard, Milford Haven, SM9128 0541, Matt Sutton, 16th May 2021, old rail line in former shipyard.
- +‡053/2.2. **Malva multiflora** (Smaller Tree-mallow) (Hocyswydden Fach). Limestone sea-cliff, Lydstep Head, SS0932 9753, Matt Sutton, 8th Apr 2021, 12+ plants on rocky limestone slope.
- +062/12.4. **Rorippa palustris** (Marsh Yellow-cress) (Berwr Melyn y Gors). Inundation zone, Pincheston Quarry, Sageston, SN0635 0321, Matt Sutton, 21st Sep 2021, drawdown zone of old flooded quarry.
- 062/41.1. **Crambe maritima** (Sea-kale) (Ysgedd Arfor). Sandy cobbles, Pickleridge, Gann estuary, Dale, SM81104 06979, Rosemary Royle & Derek Grimwood, 9th Oct 2021, last found here just after the 2nd World War It was also in the hectad at Broomhill burrows from 1989 to 1997 but was lost to erosion during storms. It was also in the adjacent hectad at West Dale Bay between 2003 and ca. 2014 when it was again lost to erosion during storms.
- +‡075/08.0.02. **Rubus tricolor** (Chinese Bramble) (Llwyn Mwyar Trilliw). Disused quarry, Coed Gelli-fawr, Gwaun Valley, SN0608 3551, Matt Sutton, 18th Feb 2021, abundant on floor of old roadside quarry.
- +091/2.13. **Euphorbia paralias** (Sea Spurge) (Llaethlys y Môr). Ward's Yard, Milford Haven, SM911 054, Matt Sutton, 16th May 2021, rough ground at edge of former shipyard.
- +‡135/40.5. **Solidago graminifolia** (Grass-leaved Goldenrod) (Eurwialen Feinddail). Ty Dwr ruins, Llandilo Common, Maenclochog, SN1035 2842, Matt Sutton, 12th Sep 2021, bank in woodland near ruined stone building.

+135/54.1. **Chamaemelum nobile** (Chamomile) (Camri). Track to Berth-Gwynne and Foel Eryr, Mynydd Precelly, SN0557 3370, Matt Sutton, 17th Oct 2021, a large population in short turf on the north side of the track to Berth-Gwynne on the SE side of Cwm Gwaun.

+135/81.2. **Bidens tripartita** (Trifid Bur-marigold) (Graban Teiran). Inundation zone, Pincheston Quarry, Sageson, SN0635 0321, Matt Sutton, 21st Sep 2021, drawdown zone of old flooded quarry.

‡147/4.1. **Zantedeschia aethiopica** (Altar-lily) (Lili'r Pasg). Barn Lane to St.Ishmael Church, Rosemarket, SM9545 0812, Nigel Lee, 29th May 2021, colony naturalised and flowering in roadside drainage ditch.

153/51.1. **Bromopsis ramosa** (Hairy-brome) (Pawrwellt Blewog). Welsh Hook Churchyard, SM9336 2753, S.B.Evans, 2nd Jun 2021, unconfirmed record from here in 1992. Shaded neutral grassland

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

+011/1.1. **Polypodium vulgare** (Polypody) (Llawredynen Gyffredin). N-side of the Moelprysgau bothy, SN806 611, S.P. Chambers, 21st Sep 2021, c. 3 clumps on collapsing drystone wall. 1st hectad record, at least for the VC46 part of SN86.

+017/3.08×09. **Dryopteris ×deweveri**. Denmark Farm, c. 1.5 km NW of Betws Bledrws, SN586 535, S.P. Chambers, 19th Jun 2021, one plant, with both parents, on marshy lake-edge.

+028/13.11. **Ranunculus sceleratus** (Celery-leaved Buttercup) (Crafanc yr Eryr). Gilfachwen, c. 3 km SE of Pentrefelin, SN639 479, S. Andrews, conf. S.P. Chambers (from digital photographs), 16th Jul 2021, one plant in planter in garden. Likely a compost alien in a planter used for Sweet Peas, pers. comm. Sarah Andrews.

†036/1.2. **Urtica urens** (Small Nettle) (Danhadlen Fach). Farmyard, Morfa Mawr Farm, c. 1.5 km SW of Llan-non, SN500 658, D. Hawkins, 15th Sep 2021, the 1st post-1970 hectad record.

†037/2.1×ste. **Pterocarya fraxinifolia × P. stenoptera DC. = P. × rehderiana:**

Pterocarya stenoptera DC. : Wingnut, Hybrid. Blaen-gors, c. 1 km S of Dihewyd, SN484 545, S.P. Chambers, K. Smith & Y. Samari, det. S.P. Chambers, 8th Jul 2021, one tree, in strip of woodland fringing edge of wet field. Established from planting, but the 1st occurrence of a tree in the context of a semi-natural habitat in the VC.

+‡040/2.3. **Alnus cordata** (Italian Alder) (Gwernen yr Eidal). Goginan, SN688 813, S.P. Chambers, 15th Jul 2021, one self-seeded treelet, c. 4 ft tall, at foot of roadside wall on minor road. 1st record for the hectad of a self-seeded tree.

+‡045/2.2. **Claytonia sibirica** (Pink Purslane) (Porpin Pine). Denmark Farm, c. 1.5 km NW of Betws Bledrws, SN586 535, C. Griffiths, S.P. Chambers & H. Garland, det. C. Griffiths, 24th Jun 2021, c. 3 plants under hedge at edge of path. First seen here a few years ago by Chloe Griffiths.

*‡046/01.5. **Arenaria montana** (Mountain Sandwort) (Tywodlys y Mynydd). E-side of Primrose Hill, Llanbadarn Fawr, SN6016 8110, A.O. Chater, 11th May 2021, one or perhaps two plants, over c. 20 x 15 cm, established on roadside bank, **Herb. AOC**

+‡051/1.03×04. **Hypericum ×inodorum** (Tall Tutsan) (Dail-y-Beiblau Tal). Black Covert Copse, Trawsgoed, SN667 725, S.P. Chambers & H.F. Clow, det. S.P. Chambers, 7th Sep

2021, one patch, c. 2 x 1 m, on path edge near car park. Likely a garden outcast rather than bird-sown as close to car park. Probably cv. 'Elstead'. The 6th VCR.

+053/1.1. **Malva moschata** (Musk-mallow) (Hocysen Fwsg). Clyn-yr-ynys, c. 0.5 km N of Gwbert, SN165 506, S.P. Chambers & D.M. Lamacraft, det. S.P. Chambers, 7th Oct 2021, four plants on dry track edge. 1st hectad record, at least for the VC46 part of SN15.

061/2.05. **Salix purpurea** (Purple Willow) (Helygen Gochlas). c. 400 m SE of the Nant Bwa-drain waterfall above Coed Simdde-lwyd, SN717 788, S.P. Chambers, 16th Aug 2021, frequent in at least two c. 100 m+ long lengths of planted, mixed hedgerows in sheep pasture. 1st hectad record since Salter recorded it in SN77?A in the 1930s.

+061/2.09×11. **Salix ×holosericea (S. viminalis × S. cinerea) [S. ×smithiana]** (Silky-leaved Osier) (Helygen Dail Sidan). Blaen-gors, c. 1 km S of Dihewyd, SN484 544, S.P. Chambers, K. Smith & Y. Samari, det. S.P. Chambers, 8th Jul 2021, one bush, perhaps planted, in willow scrub at edge of wet field.

+061/2.10. **Salix caprea** (Goat Willow) (Helygen Ddeilgron). E-end of the Esgair Saeson forestry plantation, Twyi Fechan, SN807 600, S.P. Chambers, 21st Sep 2021, frequent saplings on forestry track edges. 1st hectad record, at least for the VC46 part of SN86.

+061/2.11×12. **Salix ×multinervis**. E-end of the Esgair Saeson forestry plantation, Twyi Fechan, SN807 600, S.P. Chambers, 21st Sep 2021, two small bushes, with both parents, on forestry track edges. 1st hectad record, at least for the VC46 part of SN86.

062/11.1. **Barbarea vulgaris** (Winter-cress) (Berwr-y-gaeaf). Llanddeiniol church, SN560 721, S.P. Chambers & H.F. Clow, det. S.P. Chambers, 24th May 2021, one large plant in grassland at edge of burial plot. The 1st post-1987 hectad record for this VC-scarce plant, last recorded 38 years ago here by A.O. Chater in 1983.

‡062/11.3. **Barbarea intermedia** (Medium-flowered Winter-cress) (Berwr-y-Gaeaf Canolig). N-side of Llanfair Road, Lampeter, SN58212 47860, S.P. Chambers, 9th Apr 2021, one plant, on sandy-gravelly ground on new roadside concrete lattice hardstanding. Only the 2nd tetrad for the Cards. part of the hectad.

+062/23.5. **Cochlearia danica** (Danish Scurvygrass) (Llwylys Denmarc). S-side of the Llanwnnen Road, c. 180 m E of Llanwnnen, SN535 472, S.P. Chambers, 16th Apr 2021, small colony of c. 6 plants on pavement below modern roadbridge wall. An inland location & the 1st hectad record, at least for the VC46 part of the square.

062/30.3. **Lepidium heterophyllum** (Smith's Pepperwort) (Pupurlys Amryddail). Brondeifi Chapel, Lampeter, SN581 478, S.P. Chambers, 1st Apr 2021, colony of c. 7 plants on gravelly chippings on grave plot in burial yard. New site & tetrad for a plant that is rare inland in the VC.

+075/21.12×13. **Rosa canina × R. caesia = R. ×dumalis**. Ynys-las NNR, SN607 942, G. Knass, 29th Jul 2021, single bush on sand-dune. 1st hectad record, at least for the VC46 part of the square.

+‡075/32.35. **Cotoneaster rehderi** (Bullate Cotoneaster) (Cotoneaster Deilgrych Rehder). Blaen-gors, c. 1 km S of Dihewyd, SN486 546, S.P. Chambers & Y. Samari, det. S.P. Chambers, 8th Jul 2021, one self-sown plant, c. 3 ft tall, on wooded trackway.

+077/19.02. **Trifolium repens** (White Clover) (Meillionen Wen). E-end of the Esgair Saeson forestry plantation, Twyi Fechan, SN807 600, S.P. Chambers, 21st Sep 2021, frequent down centre of forestry track. 1st hectad record, at least for the VC46 part of SN86.

+077/19.12. **Trifolium dubium** (Lesser Trefoil) (Meillionen Hopysaidd Fach). Cwmystwyth mine, SN804 745, S.P. Chambers & H.F. Clow, det. S.P. Chambers, 29th May 2021, a few plants on dumped rubble and spoil mounds.

+077/19.14. **Trifolium pratense** (Red Clover) (Meillionen Goch). W-bank of the Afon Tywi c. 400 m SSE of Moel-prysgau, SN809 606, S.P. Chambers, 21st Sep 2021, one plant on grassy bank beside track. 1st hectad record, at least for the VC46 part of SN86.

+‡080/1.1. **Gunnera tinctoria** (Giant-rhubarb) (Rheonllys Mawr). c. 100 m NW of Llanddeiniol church, SN559 721, S.P. Chambers, 11th May 2021, colony of c. 12 crowns, established where planted in wet gladed area on wet streamside terrace in woodland.

+084/1.06×08. **Epilobium ×vicinum (E. obscurum × E. ciliatum)**. the 'Top Field', Denmark Farm, c. 1.5 km NW of Betws Bledrws, SN586 535, S.P. Chambers, C. Griffiths & H. Garland, det. S.P. Chambers, 24th Jun 2021, two plants, with both parents & *E. palustre*, in small area of flushed marshy grassland.

+085/1.3.aus. **Cornus australis [Swida australis]**. Llangranog, SN316 538, S.P. & H.A. Chambers & H.F. Clow, det. S.P. Chambers, 12th May 2021, planted, with *Acer campestre* & *Viburnum lantana*, on roadside hedgebank by entrance to car park.

+085/1.3 fla. **Cornus alba var. flaviramea [Swida alba var. flaviramea]**. c. 100 m NW of Llanddeiniol church, SN559 721, S.P. Chambers, 11th May 2021, one large bush, established & naturalised from planting, on wet streamside terrace in woodland.

107/34.2. **Carum verticillatum** (Whorled Caraway) (Carwy Droellennog). between Trellwyn & Ffynnant uchaf, c. 300 m S of the A475, WSW of Llanwnnen, SN521 464, S.P. Chambers, 27th Apr 2021, locally abundant on damp bluffs in rhos pasture. A new site, though an older (1983) site nearby for the species was found to have been destroyed by drainage and tree planting.

107/44.1.a. **Daucus carota subsp. carota** (Wild Carrot) (Moronen y Maes). Penllwyn chapel, Capel Bangor, SN653 804, H.F. Clow & S.P. Chambers, det. S.P. Chambers, 1st Aug 2021, one plant, in dry, species-rich grassland in chapel burial yard. Associated with *Galium album* (discovered here by AOC in 2020). A new tetrad and site for a plant very rare inland in the VC.

+‡110/8.7. **Solanum tuberosum** (Potato) (Taten). Disturbed ground by caravans, the Water's Edge (aka 'the Patch') caravan site, Pen-yr-ergyd, c. 2 km NW of Cardigan, SN161 487, J. Turner, 8th Oct 2021, 1st hectad record, at least for the VC46 part of SN14.

‡110/9.1. **Datura stramonium** (Thorn-apple) (Afal Dreiniog). the Water's Edge (aka 'the Patch') caravan site, Pen-yr-ergyd, c. 2 km NW of Cardigan, SN16164 48770, J. Turner, 8th Oct 2021, one mature fruiting plant on disturbed stony ground recently cleared of brambles by caravans. The 9th recent VCR.

‡115/1.1.© **Phacelia tanacetifolia** (Phacelia) (Ffaselia). above Penglais Woods, Aberystwyth, SN591 823, S.P. Chambers, 13th Sep 2021, several dead plants along recently constructed fieldbank beside footpath. Presumably from seed mix used on the bank.

†117/1.1. **Verbena officinalis** (Vervain) (Y Ferfain). Plas-crug, Aberystwyth, SN589 810, R.G. Woods & S.P. Chambers, det. S.P. Chambers, 13th Sep 2021, seven small plants at base of concrete steps of footbridge. Recorded at Plas-crug by Rees (1890) & Salter (1900) and making a remarkable reappearance after a gap of 121 years.

+118/23.4. **Mentha suaveolens** (Round-leaved Mint) (Mintys Deilgrwn). between Glanyrafon & the Nant Silo, c. 1 km NE of Cefn Llwyd, SN659 837, S.P. Chambers, 2nd Jul 2021, in unquantifiably huge quantity, on tracksides & partly vegetated stony heaps. Probably the 2nd largest population in the VC after the Cwm Rheidol reservoir one.

+‡122/1.3.© **Buddleja globosa** (Orange-ball-tree) (Coeden-fêl Peli Oren). Brynrodyn, c. 0.5 km W of Upper Borth, SN602 881, S.P. Chambers, 27th Oct 2021, one bush, looking self-sown, on scrubby N-facing slope above coastal field. The 2nd VCR. c. 230 m inland.

+‡124/01.06. **Verbascum densiflorum** (Dense-flowered Mullein) (Pannog Ddwysflodeuog). lane to Allt y Crib, Tal-y-bont, SN653 892, A.O. Chater, 27th Aug 2021, one plant on roadside outside of garden. The 2nd VCR.

+124/01.12.‡ **Verbascum lychnitis** (White Mullein) (Pannog Wen). N-side of the Afon Ystwyth, c. 15 m E of Grogwynion mine, SN714 720, S.P. Chambers & B. Stewart, det. S.P. Chambers, 4th Nov 2021, four plants, on broken, rocky ground surfaced with lead mine spoil beside trackway. White-flowered (var. album). The 3rd VCR & not seen in Cards. for 29 years.

124/02.2. **Scrophularia auriculata** (Water Figwort) (Gwrnerth y Dŵr). Afon Grannell, c.300 m E of Capel-y-groes, SN530 477, S.P. Chambers, 16th Apr 2021, seven plants in two places on river shingle shoal. The 1st record on the Afon Grannell; Newman's garden centre, Capel Dewi, SN626 823, S.P. Chambers & H.F. Clow, det. S.P. Chambers, 3rd Apr 2021, three small tufts on gravelled ground under display tables. The species continues to spread and appear in odd places in the VC.

+124/11.1. **Cymbalaria muralis** (Ivy-leaved Toadflax) (Trwyn-y-llo Dail Eiddew). Cwmystwyth mine, SN804 745, H.F. Clow & S.P. Chambers, det. H.F. Clow, 29th May 2021, a few plants on mortared brick wall of bridge culvert.

124/23.1. **Parentucellia viscosa** (Yellow Bartsia) (Gorudd Melyn). Old Goginan, SN688 815, S.P. Chambers, 29th Jul 2021, two small plants at edge of restored pasture on former lead mine. Reappearance after a gap of 14 years.

+125/2.08. **Orobanche hederæ** (Ivy Broomrape) (Gorfanhadlen Eiddew). grounds of Coleg Ceredigion, E of Primrose Hill, Llanbadarn Fawr, SN602 811, C. Griffiths, det. S.P. Chambers, 20th Jun 2021, cluster of c. 7 spikes in one group amongst *Hedera hibernica* on ground under planted *Pinus sylvestris* in shelterbelt shrubbery.

+‡131/6.1. **Lonicera pileata** (Box-leaved Honeysuckle) (Gwyddfifd Llorweddol). Frongoch Farm, c. 0.5 km N of Waun Fawr, SN605 826, R.G. Woods & S.P. Chambers, det. R.G. Woods & S.P. Chambers, 16th Sep 2021, one small bush, in ruderal vegetation by old glasshouses. Looking convincingly self-sown. The 3rd VCR, & 1st VCR of a plant not established vegetatively.

+135/01.1.sl. **Arctium lappa**. between Glyn Padarn & Ysgol Penweddig, Llanbadarn Fawr, SN59664 80986, H.F. Clow & S.P. Chambers, det. S.P. Chambers, 20th Jul 2021, nine plants, 8 flowering, on disturbed ground by new cyclepath. Apart from a locationally cryptic report in 1849 (see p.641 in AOC's 'Flora of Cardiganshire'), *A.lappa* has been seen only once before in Cards., at the Teifi marshes nature reserve in 1992, where it never re-appeared, **Herb. SPC**

135/09.1. **Serratula tinctoria** (Saw-wort) (Dant y Pysgodyn). E-side of the Nant Bwa-drain, c. 500 m ESE of Castell Bwa-drain, SN71705 79284, S.P. Chambers, 16th Aug 2021, three plants on heathy NVC U4c-type bank above field. New site & tetrad for an axiophyte scarce inland & very rare N of the Afon Ystwyth in the VC.

135/16.3. **Leontodon saxatilis** (Lesser Hawkbit) (Peradyl Bach). track to Glanyrafon, c. 0.5 km ESE of Penrhyn-coch, SN657 838, S.P. Chambers, 2nd Jul 2021, occasional in dry grassland for c. 30 m along S-facing unsurfaced stony track. A rare species inland in the VC & only the 2nd tetrad for the hectad; hill pasture c. 200 m N of Hafodau, Goginan, SN694 805, S.P. Chambers, 15th Jul 2021, locally frequent to v.l. abundant in species-rich dry grassland. New site for a plant rare inland in the VC.

+135/28.01.1. **Hieracium sabaudum** (Autumn Hawkweed) (Heboglys Blewog). W-bank of the Afon Tywi c. 400 m SSE of Moel-prysgau, SN809 606, S.P. Chambers, 21st Sep 2021, occasional plants along grassy bank beside track. 1st hectad record, at least for the VC46 part of SN86.

+135/28.07.77. **Hieracium submutabile** (Variable Hawkweed). c. 1/2 way up the W-side of the Nant Bwa-drain waterfall at the W-end of Coed Simdde-lwyd, Cwm Rheidol, SN71537 79184, S.P. Chambers, det. B. Burrow, 20/4/2021, 19th May 2020, colony of c. 20+ plants on steeply shelving, S-facing rockledges beside waterfall. The 1st record from the N-part of the VC & away from its main stronghold in the upper Aeron valley, apart from an old 1978 record from the Goginan lead mine. **Herb. SPC**

+†135/35.1. **Inula helenium** (Elecampane) (Marchalan). Afon Melindwr, Old Goginan, SN687 815, S.P. Chambers, 29th Jul 2021, one clump with 2 flowering stems on road verge. Probably planted.

135/43.sum. **Erigeron sumatrensis**. Aberystwyth University Campus, Penglais, SN595 819, S.P. Chambers & R.G. Woods, det. S.P. Chambers, 14th Sep 2021, seven large, well-grown plants, in perennial border. The 3rd VCR & the 1st proper colony as such, the other records being of individual plants.

*‡135/61.1. **Cotula coronopifolia** (Buttonweed) (Blodyn Botwm). RSPB Ynys-hir, SN672 959, D. Anning & T. Kistruck, det. A.O. Chater, 9th Sep 2021, abundant in wet grassland. The 1st VCR. The field, which is partly flooded in winter, is the main roost site at Ynys-hir for Greenland White-fronted Geese. **herb. SPC**

+135/62.10×11. **Senecio ×ostenfeldii**. 300 m NE of Frongoch Farm, c. 0.5 km N of Waun Fawr, SN607 828, S.P. Chambers, 16th Sep 2021, one plant, in marshy grassland on valley floor wetland. With *S.aquaticus* close by & *S.jacobaea* c. 50 m away on dry bank.

+‡151/1.02. **Juncus tenuis** (Slender Rush) (Brwynen Fain). E-end of the Esgair Saeson forestry plantation, Twyi Fechan, SN807 600, S.P. Chambers, 21st Sep 2021, forestry track edges. 1st hectad record, at least for the VC46 part of SN86.

+151/1.15.bul. **Juncus bulbosus var. bulbosus**. the 'Pond Field', Denmark Farm, c. 1.5 km NW of Betws Bledrws, SN585 536, S.P. Chambers, C. Griffiths & H. Garland, det. S.P. Chambers, 24th Jun 2021, frequent in mesotrophic shallow scrape in field.

153/12.03. **Festuca gigantea** (Giant Fescue) (Peiswellt Mawr). Penglais Woods, Aberystwyth, SN589 822, S.P. Chambers, 13th Sep 2021, scattered plants along path edges in woodland. This species seems to be spreading in wooded habitats in the VC.

153/38.1. **Phalaris arundinacea** (Reed Canary-grass) (Pefrwellt). Nant-y-figyn, between Llyn Fyrddon Fawr & Llyn y Figyn, c. 400 m E of Llyn Fyrddon Fawr, SN804 704, S.P. Chambers, 3rd Jun 2021, several patches on streambank in upland mire. New VC alt limit of 495 m (old limit was 475 m).

- *‡153/43.1. **Lagurus ovatus** (Hare's-tail) (Cynffon Ysgyfarnog). Felin y Mor, Aberystwyth, SN5821 8089, R.A. Jones, 1st Jan 2021, one plant on S-side of road. The 1st VCR, probably escaped from nearby garden.
- +‡153/46.2. **Polypogon viridis** (Water Bent) (Barfwellt y Dŵr). Church Street, New Quay, SN387 599, R.A. Jones & K. Heppingstall, det. R.A. Jones, 19th May 2021, large populations on pavements and wall bases; (*) Elm Tree Avenue & Alexandra Road, Aberystwyth, SN586 816, S.P. Chambers, 4th May 2021, at least c. 40-50 plants along wall bases and pavement edges. The 1st VCR. **Herb. SPC**; Penparcau Road, Aberystwyth, SN590 801, S.P. & H.A. Chambers & H.F. Clow, det. S.P. Chambers, 12th May 2021, colony c. 1 x 0.1 m, on pavement right along base of wall. The 2nd VCR, **Herb. SPC**; (+) Frongoch Farm, c. 0.5 km N of Waun Fawr, SN605 826, R.G. Woods & A.O. Chater, 18th Sep 2021, frequent in ruderal vegetation around old glasshouses, **herb, AOC**
- +153/50.3. **Bromus racemosus** (Smooth Brome) (Pawrwellt Llyfn). Blaen-gors, c. 1 km S of Dihewyd, SN485 545, K. Smith, S.P. Chambers & Y. Samari, det. S.P. Chambers, 8th Jul 2021, several plants in an area c. 3 x 2 m in organic hay meadow; (+) Leri fields, c. 300 m E of Aberlerry, N of Borth, SN612 919, S.P. Chambers & J.P. Lyons, det. S.P. Chambers, 14th Jun 2021, c. 6 plants in among cattle-poached vegetation, with *Glyceria declinata* inter alia, by gateway on wet field. New hectad record at least for the VC46 part of the square.
- ‡158/18.umb.cam. **Ornithogalum umbellatum subsp. campestre**. Dol-y-pandy, Capel Bangor, SN65922 79923, S.P. Chambers & H.F. Clow, det. S.P. Chambers, May 2021, 7th Mar 2021, three clumps, protected by growing nestled between tree roots in the centre of a poached, muddy bridleway. An unusual habitat & only the second tetrad for the hectad. Bulblets were collected, grown-on and flowered later (in May) allowing identification.
- +158/24.10. **Allium ursinum** (Ramsons) (Craf y Geifr). Llanfair Road, Lampeter, SN581 478, S.P. Chambers, 1st Apr 2021, three small leaf tufts on stony slope of former railway bridge embankment. The 1st hectad record, at least for the VC46 part of SN54.
- ‡158/31.1. **Leucojum aestivum** (Summer Snowflake) (Eiríaidd yr Haf). N-bank of the Afon Rheidol, Aberystwyth, SN594 804, C. Griffiths, det. S.P. Chambers, 8th Mar 2021, nine clumps, well-naturalised in riparian vegetation on riverbank. The 1st record from a semi-natural-type habitat in the VC. Plants were intermediate in character between the subsp.
- +158/33.6×mos. **Narcissus cyclamineus** × **N. moschatus** = **N. ×dichromus P.D. Sell** (White & Yellow Daffodil). Afon Grannell, c.300 m E of Capel-y-groes, SN530 479, S.P. Chambers, 16th Apr 2021, one clump, in rough vegetation on river shingle shoal. The 1st VC record from semi-natural vegetation and in a 'wild type' site. Material exactly matching garden grown plants of cv. 'Jack Snipe' commercially obtained from specialist *Narcissus* nursery.
- +159/05.03. **Iris pseudacorus** (Yellow Iris) (Gellesgen). E-side of the Moel-prysgaw bothy, SN806 611, S.P. Chambers, 21st Sep 2021, large patch, c. 2 x 3 m, in wet grassland. Well-established but obviously planted. Not recorded by AOC & RDP in 2001, so presumably planted since then.
- +‡159/SCH.coc. **Schizostylis coccinea** (Kaffir Lily). Allt-y-Gigfran, c. 200 m SE of Pencnwch, NW of Cwm Rheidol mine, SN725 784, S.P. Chambers, 26th Aug 2021, one red-flowered plant, distant from garden sources & appearing self-seeded, on SSW-facing woodland bank above track. The 2nd VCR.

162/18.2×4. **Dactylorhiza ×hallii** (**D. maculata** × **D. praetermissa**). between the Afon Leri & Ty Mawr, Cors Fochno (Borth Bog), SN624 924, J.P. Lyons, S.P. Chambers & Aberystwyth Botanical Society members, det. S.P. Chambers, 13th Jun 2021, one robust clump in orchid-rich boggy field. The 6th VC record & the 1st from the Dyfi area since Lang recorded it by the old course of the Leri at SN608921 in 1990

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

015/2.5.a. **Asplenium trichomanes subsp. trichomanes** (a subspecies of Maidenhair Spleenwort). Afon Cwm, Llanbrynmair, SH91 06, Gillian and Peter Foulkes, 2nd May 2021, on shaly riverside cliff at SH91250615; previous record known for As tri from this hectad; few county records for this subsp.

+043/1.06. **Chenopodium rubrum** (Red Goosefoot) (Troed-yr-ŵydd Coch). Penybontfawr (Cwm Fedw), SJ07 22, Gill Foulkes, Kate Thorne & Mont. Flora Group, 3rd Sep 2021, farmyard, 1 plant only.

+046/10.7.a. **Sagina apetala subsp. apétala** (Annual Pearlwort) (Anaf-Flodeuog Corwlyddyn). Aberhosan, SN81 97, Gillian and Peter Foulkes, 19th May 2021, in cracks in tarmac at Community Centre entrance, new hectad record for *Sagina apetala* (6th county record for this subsp.).

+046/17.4. **Spergularia rubra** (Sand Spurrey) (Troellig Arfor Coch). Pont Llogel (NW of), SJ02 16, Gill Foulkes, Kate Thorne & Mont. Flora Group, 7th Sep 2021, forest tracks.

+051/1.14. **Hypericum hirsutum** (Hairy St John's-wort) (Eurinllys Blewog). Yr Allt Boeth, SJ02 17, Gill Foulkes, Kate Thorne & Mont. Flora Group, 7th Sep 2021, forest track.

*057/1.04×05. **Viola riviniana** × **V. reichenbachiana** = **V. ×bavarica**. Montgomery, SO2231 9636, E. Beare, det. M.S. Porter 08/05/2021, 19th Mar 2021, on a bank beneath a weeping willow. Several dozen plants.

☐+075/09.14×15. **Potentilla anglica** × **P. reptans** & **P. erecta** × **P. reptans** (**P. ×mixta**) (Hybrid Cinquefoil) (Pumnalen Groesryw). Fronheulog, SO17 92, A.K. Thorne & W.I.J.Thorne, 18th Aug 2021; (☐+) Berriew (W of), SJ14 00, A.K. Thorne & W.I.J.Thorne, 26th Aug 2021, trackside verge & hedgerow.

+‡075/13.3. **Geum macrophyllum** (Large-leaved Avens) (Mapgoll Fawr)). Hafren Forest, SN854 869, G.A. Foulkes & Mont. Flora Group, 4th Aug 2021, several plants along sides of forestry track; (+) Hafren Forest, SN85 87, G.A. Foulkes & Mont. Flora Group, 4th Aug 2021, a few plants along forestry track.

+077/19.15. **Trifolium medium** (Zigzag Clover) (Meillionen Igam-ogam). Staylittle, SN88 92, J. Clayfield, 9th Jun 2021, verges on B4518.

⊗078/1.1.‡ **Hippophae rhamnoides** (Sea-buckthorn) (Rhafnwydden y Môr). Machynlleth, SH70K, D. Elias, 19th Aug 2021, two seedlings in gutter; mature fruiting plants nearby. Non-native site. One previous old record for SH70.

☐+092/1.1. **Rhamnus cathartica** (Buckthorn) (Rhafnwydden). Wern Fields, SJ251 137, Sue Southam & Kate Thorne, 9th Sep 2021, 2 shrubs in hedgerow.

+103/2.3. **Erodium cicutarium** (Common Stork's-bill) (Pig-y-crëyr). Old Church Stoke, SO289 952, A.K. Thorne & W.I.J.Thorne, 24th Apr 2021, 2-3 localised patches on tiny knolls in steep pasture around SO28969527.

+124/02.2. **Scrophularia auriculata** (Water Figwort) (Gwrneth y Dŵr). Derwenlas, SN71 99, G. Foulkes, E. Beare, D. Elias, H. Garrett & S. Thomas, 17th May 2021, wet grassy area at road junction.

□+124/20.05×07. **Euphrasia arctica** × **E. nemorosa**. Sarn Ddu (W of Trannon Moor), SN89 97, Gillian and Peter Foulkes, det. C. Metherell, 15th Aug 2021, at SN89979730 in upland grassland with some base-rich areas. Associates: Lin cath, Selag selag.

*124/20.05×18. **Euphrasia arctica** × **E. micrantha** = **E. ×difformis**. Sarn Ddu (W of Trannon Moor), SN89 97, Gillian and Peter Foulkes, det. C. Metherell, 15th Aug 2021, at SN89979730 in upland grassland with some base-rich areas. Associates: Cal vulg, Pot ere, Dan dec.

□+124/20.18×19. **Euphrasia micrantha** × **E. scottica** = **E. ×electa**. Nant Nadroedd Fawr, SH957 257, Gillian and Peter Foulkes, det. C. Metherell, 14th Jul 2021, at SH957257.

Frequent in upland flush with Ping vul, Erica tet, Narth oss. ID confirmed by C. Metherell (2021/125). Commented close to *E. scottica*.

□+135/01.1.sl. **Arctium lappa** (Greater Burdock) (Mawr Cyngaf). Wern (Varchoel Lane), SJ2417 1286, A.K. Thorne & W.I.J.Thorne, 20th Aug 2021, 3 flowering plants on margin of arable field corner, with many more vegetative plants.

□+135/28.08.135. **Hieracium cinderella** (Long-bracted Hawkweed). Breidden Hill, SJ30 14, K.A. Thorne & Mont. Flora Group, 27th May 2021, trackside bank in woodland at SJ3003.1482.

□+152/16.09.a. **Carex divulsa subsp. divulsa** (Grey Sedge). Bachelldre, SO241 923, A.K. Thorne & W.I.J.Thorne, 10th Oct 2021, lane verge. Single clump.

+153/12.03. **Festuca gigantea** (Giant Fescue) (Peiswellt Mawr). Llwydiarth (Aberllefenni), SH78 10, Gillian and Peter Foulkes, 2nd Apr 2021, very steep, shaded bank on VC47 side of Nant Cwmcelli.

□+153/47.4. **Alopecurus aequalis** (Orange Foxtail) (Cynffonwellt Melyngoch). Llanfyllin, SJ142 197, R.A. Dawes, 9th Jun 2021, abundant in man-made pool in nature reserve by Spar.

154/1.1.c. **Sparganium erectum subsp. neglectum** (Branched Bur-reed) (Canghennog Cleddlys). Cerist valley (SW of Caersws), SO01 90, G. Foulkes, 2nd Sep 2021, field ditch at SO01299067; previous record known for Sp ere from this hectad; only 8th county record for this subsp.

+162/18.1. **Dactylorhiza fuchsii** (Common Spotted-orchid) (Tegeirian Brych). Foel Lletymorfudd (nr Aberhosan), SN83 97, Gillian and Peter Foulkes, 4th Jun 2021, damp flush in semi-improved grassland.

*162/18.1×4. **Dactylorhiza fuchsii** × **D. praetermissa** = **D. ×grandis**. White Grit Meadows SSSI, SO31587 97703, I. Hotchkiss, det. Ian Denholm, 1st Jul 2021, single spike by the pond/willow wastewater filtration bed in the garden of The Homestead outside of the SSSI

MERIONETH, v.c.48 (comm. Joanna Clark)

002/1.1. **Selaginella selaginoides** (Lesser Clubmoss) (Cnwpl-fwsogl Bach). Llyn Arran, SH7326 1357, Meirionnydd Naturalists, 20th Aug 2021; Tyn y Ffordd Fawr, SH7443 1553, Meirionnydd Naturalists, 20th Aug 2021.

- 010/1.1. **Hymenophyllum tunbrigense** (Tunbridge Filmy-fern) (Rhedynach Teneuwe Tunbridge). Dolfriog woods, SH614 461, Nouvet Sabine, 17th Mar 2021, 1st record in hectad since 1996.
- 015/2.3. **Asplenium obovatum** (Lanceolate Spleenwort) (Duegredynen Hirgul). Ceunant Llennyrch, SH6532 3952, Allan Brandon, 20th Sep 2021, two new locations for this fern in SH63; North of road near Tyn-y-Coed, north of Ceunant Llennyrch, SH6665 3923, Allan Brandon, 20th Sep 2021, as previous.
- 015/2.6. **Asplenium viride** (Green Spleenwort) (Duegredynen Werdd). Llyn Arran, SH7326 1357, Meirionnydd Naturalists, 20th Aug 2021.
- 016/4.1. **Gymnocarpium dryopteris** (Oak Fern) (Rhedynen Dridarn). Rhinogs, Talsarnau, SH643 356, Julian Driver, 20th Sep 2021, 1st record in hectad since 1987 - 1999.
- 017/1.1. **Polystichum setiferum** (Soft Shield-fern) (Gwrychredynen Feddal). St Cadfan's church, SH58 00, Meirionnydd Naturalists, 22nd Oct 2021; Ynys maengwyn, SH59 02, Meirionnydd Naturalists, 22nd Oct 2021.
- 017/3.05. **Dryopteris aemula** (Hay-scented Buckler-fern) (Marchredynen Bêr). Coed Garth Byr, SH6255 3644, Steven Heathcote & Adam James, 30th Apr 2021, new location for this fern in SH63; Ceunant Llennyrch, SH6573 3898, Meirionnydd Naturalists, 27th Aug 2021, 5 plants; Ceunant Llennyrch, SH6641 3897, Meirionnydd Naturalists, 27th Aug 2021, 1 plant; Ceunant Llennyrch, SH6664 3886, Meirionnydd Naturalists, 27th Aug 2021, 12 plants.
- 028/02.1. **Trollius europaeus** (Globeflower) (Cronnell). Llyn Arran, SH7326 1357, Meirionnydd Naturalists, 20th Aug 2021.
- 028/13.11. **Ranunculus sceleratus** (Celery-leaved Buttercup) (Crafanc yr Eryr). Ynys maengwyn, SH59 02, Meirionnydd Naturalists, 22nd Oct 2021.
- 028/17.4. **Thalictrum minus** (Lesser Meadow-rue) (Arianllys Bach). Llyn Arran, SH7326 1357, Meirionnydd Naturalists, 20th Aug 2021.
- †036/1.2. **Urtica urens** (Small Nettle) (Danhadlen Fach). Bryn Sant, SJ05 42, Meirionnydd Naturalists, 17th Sep 2021, 1st record in this hectad since 1969.
- +040/1.2.c **Betula celtiberica**. Croesor, SH6250 4410, Andy Jones, det. Arthur Chater, 18th Aug 2020, 1st record for hectad.
- 046/05.3. **Stellaria pallida** (Lesser Chickweed) (Gwlyddyn-y-dom Bach). Harlech, SH57 31, Mari Roberts & Jo Clark, 9th Apr 2021.
- 046/16.1.† **Spergula arvensis** (Corn Spurrey) (Troellig yr Ŷd). Bryn Sant, SJ06 42, Meirionnydd Naturalists, 17th Sep 2021.
- +‡047/1.02. **Persicaria campanulata** (Lesser Knotweed) (Y Ganwraidd Fach). Crafnant, SH619 296, Steve Chambers, 2nd Oct 2021, new hectad record for VC.
- ⊞+‡047/1.03. **Persicaria wallichii** (Himalayan Knotweed) (Y Ganwraidd Himalaiaidd). Coed Aber Eden, SH714 290, Steven Heathcote & Adam James, 7th Oct 2021, 1st record for hectad.
- 047/9.1. **Oxyria digyna** (Mountain Sorrel) (Suran y Mynydd). Llyn Arran, SH7326 1357, Meirionnydd Naturalists, 20th Aug 2021.
- 057/1.06. **Viola canina** (Heath Dog-violet) (Fioled y Cŵn). Morfa Dyffryn, SH56 24, Meirionnydd Naturalists, 25th Jun 2021.
- †061/2.02. **Salix fragilis** (Crack-willow) (Helygen Frau). Bryn Sant, SJ05 42, Meirionnydd Naturalists, 17th Sep 2021.

061/2.05.‡ **Salix purpurea** (Purple Willow) (Helygen Gochlas). Bryn Sant, SJ05 42, Meirionnydd Naturalists, 17th Sep 2021, 1st record in this hectad since 1984.

062/15.6. **Arabis hirsuta** (Hairy Rock-cress) (Berwr-y-cerrig Blewog). Castell Prysor, SH7579 3686, Meirionnydd Naturalists, 28th May 2021.

+062/42.1.b. **Raphanus raphanistrum subsp. maritimus** (Sea Radish) (Rhuddygl Arfor). Fairbourne Spit, SH6158 1489, Meirionnydd Naturalists, 30th Apr 2021, 1st record in hectad since 1930, although ddb says there is a pre-1930 record for SH61 there is no record visible when I open it.

+073/1.1. **Crassula tillaea** (Mossy Stonecrop) (Corchwyn Mwsoglog). Morfa Dyffryn, SH559 259, Andy Jones, 26th Apr 2021, 1st record for hectad.

073/5.1. **Sedum rosea** (Roseroot) (Pren y Ddannoedd). Moelwyn Bach, SH659 437, A.N. & J.E.Graham, 22nd Jun 2021; Llyn Arran, SH73 13, Meirionnydd Naturalists, 20th Aug 2021.

074/05.16. **Saxifraga hypnoides** (Mossy Saxifrage) (Tormaen Llydandroed). Llyn Arran, SH73 13, Meirionnydd Naturalists, 20th Aug 2021.

075/15.2. **Agrimonia procera** (Fragrant Agrimony) (Llysiâu'r-dryw Pêr). Morfa Dyffryn, SH56 24, Meirionnydd Naturalists, 25th Jun 2021.

+075/17.1. **Sanguisorba officinalis** (Great Burnet) (Bwrned Mawr). Bryn Sant, SJ05 42, Meirionnydd Naturalists, 17th Sep 2021, new record for this hectad.

075/19.10. **Alchemilla filicaulis** (Hairy Lady's-mantle) (Mantell-Fair Goesfain). Castell Prysor, SH75 36, Meirionnydd Naturalists, 28th May 2021.

♁+‡077/15.09. **Lathyrus latifolius** (Broad-leaved Everlasting-pea) (Ytbysen Fythol Lydanddail). Morfa Harlech, SH5739 3021, Richard Finch, 10th Jun 2019, 1st record for hectad; (♁+) Morfa Harlech, SH5741 3001, Richard Finch, 10th Jun 2019, 1st record for hectad.

077/19.13. **Trifolium micranthum** (Slender Trefoil) (Meillionen Hopysaidd Eiddil). Morfa Dyffryn, SH5673 2331, Richard Finch, 13th Jun 2019, 1st record since 2002.

‡077/21.1. **Lupinus arboreus** (Tree Lupin) (Coeden Bysedd y Blaidd). Morfa Harlech, SH5696 3281, Richard Finch, 10th Jun 2019, 1st record since 1980.

077/25.3. **Genista pilosa** (Hairy Greenweed) (Corfanhadlen Flewog). Cwm Amarch, SH7148 1139, A.N. & J.E.Graham, 17th Jun 2021; Cwm Amarch, SH7145 1141, A.N. & J.E.Graham, 17th Jun 2021.

091/2.12. **Euphorbia portlandica** (Portland Spurge) (Llaethlys Portland). Morfa Dyffryn, SH56 24, Meirionnydd Naturalists, 25th Jun 2021.

094/2.1. **Radiola linoides** (Allseed) (Llin Gorhadog). Morfa Harlech, SH5746 3217, Steven Heathcote & Cat Jones, 10th Jun 2019, 1st record since 1999.

103/2.1. **Erodium maritimum** (Sea Stork's-bill) (Pig-y-crëyr Arfor). Fairbourne Spit, SH61 14, Meirionnydd Naturalists, 30th Apr 2021.

116/17.1. **Cynoglossum officinale** (Hound's-tongue) (Tafod y Bytheiad). Morfa Dyffryn, SH56 24, Meirionnydd Naturalists, 25th Jun 2021; Fairbourne Spit, SH61 14, Meirionnydd Naturalists, 30th Apr 2021.

121/1.4.‡ **Plantago media** (Hoary Plantain) (Llyriad Llwyd). Fairbourne Spit, SH61 14, Meirionnydd Naturalists, 30th Apr 2021, 1st record in hectad since 2006.

124/20.05. **Euphrasia arctica** (Arctic Eyebright) (Effros yr Arctig). Morfa Dyffryn, SH56 24, Meirionnydd Naturalists, 25th Jun 2021, 1st hectad update since 2006; Llyn Arran, SH73 13, Meirionnydd Naturalists, 20th Aug 2021, 1st hectad record since 1987.

124/20.07×09. **Euphrasia nemorosa** × **E. confusa**. Muriau Gwyddelod, SH581 301, Meirionnydd Naturalists, 30th Jul 2020, 32 plants counted. New hectad record for SH52.

124/20.19. **Euphrasia scottica** (Scottish Eyebright) (Effros Eiddil y Fawnog). Tyn y Ffordd Fawr, SH7443 1553, Meirionnydd Naturalists, 20th Aug 2021.

124/23.1. **Parentucellia viscosa** (Yellow Bartsia) (Gorudd Melyn). Morfa Dyffryn, SH57 22, Meirionnydd Naturalists, 25th Jun 2021.

129/3.1. **Wahlenbergia hederacea** (Ivy-leaved Bellflower) (Clychlys Dail Eiddew). by Tal-y-llyn Lake, SH723 105, A.N. & J.E.Graham, 17th Jun 2021; Coed-y-Brenin, SH738 259, A.N. & J.E.Graham, 28th Aug 2021; Tyddyn-mawr, SH752 288, A.N. & J.E.Graham, 28th Aug 2021.

135/05.1. **Carduus tenuiflorus** (Slender Thistle) (Ysgallen Flodfain). Fairbourne Spit, SH6151 1471, Meirionnydd Naturalists, 30th Apr 2021.

135/05.3. **Carduus crispus** (Wetted Thistle) (Ysgallen Grech). Morfa Harlech, SH5616 3525, Steven Heathcote, 10th Jun 2019, 1st record in hectad since 1970 - 1986.

135/09.1. **Serratula tinctoria** (Saw-wort) (Dant y Pysgodyn). Castell Prysor, SH7623 3704, Meirionnydd Naturalists, 28th May 2021.

*‡135/19.2.© **Tragopogon porrifolius** (Salsify) (Barf-yr-afr Gochlas). Morfa Harlech, SH5694 3176, Alan Orange, 10th Jun 2019, 1st record for Meirionnydd.

152/16.29. **Carex vesicaria** (Bladder-sedge) (Hesgen Chwysigennaidd). Bryn Sant, SJ06 42, Meirionnydd Naturalists, 17th Sep 2021, 1st record in this hectad since 1987.

+152/16.31‡ **Carex pendula** (Pendulous Sedge) (Hesgen Bendrom). St Cadfan's church, SH58 00, Meirionnydd Naturalists, 22nd Oct 2021, 1st record for hectad.

152/3.5. **Eleocharis quinqueflora** (Few-flowered Spike-rush) (Ysbigfrwynen Goch). Tir Stent, SH7528 1658, A.N. & J.E.Graham, 6th Jun 2021, 1st record in hectad since 2004.

153/18.09.‡ **Poa compressa** (Flattened Meadow-grass) (Gweunwellt Cywasgedig). Harlech, SH57 31, Mari Roberts & Jo Clark, 9th Apr 2021, 1st record in hectad since 1996.

153/30.1. **Trisetum flavescens** (Yellow Oat-grass) (Ceirchwellt Melyn). Trawscoed, SH845 326, A.N. & J.E.Graham, 11th Jul 2021, 1st record for hectad since 1991.

162/03.1. **Epipactis palustris** (Marsh Helleborine) (Caldrist y Gors). Morfa Dyffryn, SH56 24, Meirionnydd Naturalists, 25th Jun 2021.

162/03.4. **Epipactis helleborine** (Broad-leaved Helleborine) (Y Galdrist Lydanddail). Coed-y-Brenin, SH7448 2609, A.N. & J.E.Graham, 28th Aug 2021; Gwyddelwern, SJ0872 4636, Tom Knight, 13th Jun 2021.

162/03.7. **Epipactis phyllanthes** (Green-flowered Helleborine) (Y Galdrist Felynwerdd). Morfa Dyffryn, SH56 24, Meirionnydd Naturalists, 25th Jun 2021.

162/06.1. **Neottia ovata** (Common Twayblade) (Caineirian). Morfa Dyffryn, SH56 24, Meirionnydd Naturalists, 25th Jun 2021, 1st hectad update since 2005.

162/13.2 **Platanthera bifolia** (Lesser Butterfly-orchid) (Tegeirian Llydanwyrdd Bach). Tir Stent, SH7546 1636, A.N. & J.E.Graham, 2nd Jul 2021.

162/14.1. **Anacamptis pyramidalis** (Pyramidal Orchid) (Tegeirian Bera). Morfa Dyffryn, SH56 24, Meirionnydd Naturalists, 25th Jun 2021.

+162/16.1.c. **Gymnadenia borealis**. Tir Stent, SH7546 1636, A.N. & J.E.Graham, 2nd Jul 2021, 1st record for the hectad.

162/17.1. **Dactylorhiza viridis** (Frog Orchid) (Tegeirian y Broga). Muriau Gwyddelod, SH582 298, Meirionnydd Naturalists, 30th Jul 2021, 216 plants counted. 1st hectad record since 2002.

162/18.1. **Dactylorhiza fuchsii** (Common Spotted-orchid) (Tegeirian Brych). Morfa Dyffryn, SH56 23, Meirionnydd Naturalists, 25th Jun 2021.

162/18.3. **Dactylorhiza incarnata** (Early Marsh-orchid) (Tegeirian-y-gors Cynnar). Morfa Dyffryn, SH56 23, Meirionnydd Naturalists, 25th Jun 2021, 1st hectad update since 2005; Tir Stent, SH7532 1643, A.N. & J.E.Graham, 2nd Jul 2021.

162/18.4. **Dactylorhiza praetermissa** (Southern Marsh-orchid) (Tegeirian-y-gors Deheuol). Tir Stent, SH7532 1643, A.N. & J.E.Graham, 2nd Jul 2021

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

+005/1.1. **Ophioglossum vulgatum** (Adder's-tongue) (Tafod y Neidr). Woodland floor, Bryn Pydew, SH80 79, Wendy McCarthy, 25th May 2021, 13 fronds counted.

+‡028/03.arg. **Helleborus argutifolius** (Corsican Hellebore) (Crafanc-yr-arth Corsica). Roadside bank, Bryn Pydew, SH81 79, Wendy McCarthy, 25th May 2021.

*028/03.hyb. **Helleborus ×hybridus** (Hybrid Lenten-roses). Roadside verge, Dinas, SH47 58, Mari Roberts, det. Mike Crewe, 5th Mar 2021, 1st vc record. Determined from photographs on Facebook group 'Wild Flowers of Britain and Ireland'.

+‡029/2. **Mahonia aquifolium** (Oregon-grape) (Mahonia Dail Celynnog). Hedge bank, Tal y Bont, Conwy, SH76 69, W.McCarthy & M.Roberts, 30th Apr 2021.

+†030/1.3. **Papaver somniferum** (Opium Poppy) (Llysiau Cwsg). River bank, Trefriw, SH78 63, W.McCarthy & M.Stead, 21st Sep 2021, first record in a wild situation for square.

+043/1.06. **Chenopodium rubrum** (Red Goosefoot) (Troed-yr-wydd Coch). Disturbed ground by track, Penrhynside, SH80 81, Wendy McCarthy, 12th Aug 2021.

+046/10.7. **Sagina apetala** (Annual Pearlwort) (Corwlyddyn Unflwydd). Grassy hillside with outcrops, Bryn Pydew, SH80 79, Wendy McCarthy, 25th May 2021.

+046/16.1.sat. **Spergula arvensis var. sativa**. Bare ground by river bank, Llanrwst, SH79 61, W.McCarthy & M.Stead, 31st Jul 2021.

+‡046/18.1. **Lychnis coronaria** (Rose Champion) (Lluglys Gwridog). Top of shingle beach, Llandudno, SH80 82, Wendy McCarthy, 20th Jul 2021.

+‡047/1.02. **Persicaria campanulata** (Lesser Knotweed) (Y Ganwraidd Fach). Field corner, Penmachno, SH80 49, NJ & SK Osley, 15th Oct 2021, presumed escape from nearby garden where seen to be present.

+051/1.04. **Hypericum hircinum** (Stinking Tutsan) (Dail-y-Beiblau Drewllyd). Waste ground beside road, Tal y Bont, Conwy, SH76 68, W.McCarthy & M.Roberts, 30th Apr 2021.

+‡061/2.09×10×11 **Salix ×calodendron** (Holme Willow) (Helygen Holme). Path between estuary & railway line, Deganwy, SH78 78, Wendy McCarthy, 10th Aug 2021.

⊗†062/33.1. **Diplotaxis tenuifolia** (Perennial Wall-rocket) (Roced-y-muriau Meinddail). Roadside below garden, Llanfairfechan, SH69 74, W. McCarthy, M. Roberts & M.Stead, 8th Oct 2021, first record for hectad since 1950.

+‡062/34.2.a. **Brassica napus subsp. oleifera** (Oil-seed Rape) (Rêp Had Olew). Top of shingle beach, Llandudno, SH80 82, Wendy McCarthy, 20th Jul 2021.

- +062/34.5.‡ **Brassica nigra** (Black Mustard) (Mwstard Du). Grass bank above car park, Dolgarrog, SH77 67, W.McCarthy & M.Stead, 5th Nov 2021.
- +062/42.1.b. **Raphanus raphanistrum subsp. maritimus** (Sea Radish) (Rhuddygl Arfor). Sandy shingle beach, Penrhyn Bay, SH82 81, Wendy McCarthy, 21st Sep 2021.
- +069/1.1×3. **Primula ×polyantha** (False Oxlip) (Briallen Groesryw). Bank above railway line, Llanfairfechan, SH66 74, E. Phenna, 10th May 2021, garden cultivars established; (+) grass bank near river, Penmaenmawr, SH71 76, W. McCarthy, M. Roberts & M.Stead, 2nd Dec 2021, garden cultivar with purple flowers.
- +069/6.2.a.car **Anagallis arvensis subsp. arvensis f. carnea** (Scarlet Pimpernel). Sandy grassland, Morfa Dinlle, SH43 59, W. McCarthy, M. Roberts & M.Stead, 11th Jun 2021.
- +‡073/5.7. **Sedum spurium** (Caucasian-stonecrop) (Briweg y Cawcasws). Edge of car park, Penmaenmawr, SH71 76, W. McCarthy, M. Roberts & M.Stead, 2nd Dec 2021.
- +‡075/08.02.055 **Rubus laciniatus**. Path edge in wood, Conwy, SH76 76, W.McCarthy & M.Stead, 22nd Oct 2021.
- +075/09.14×15. **Potentilla ×mixta** (Hybrid Cinquefoil) (Pumnaalen Groesryw). Disused railway line, Dolgarrog, SH77 67, W.McCarthy & M.Stead, 5th Nov 2021.
- ⊗‡075/18.1. **Acaena novae-zelandiae** (Pirri-pirri-bur) (Pirri-pirri). Grass bank above car park, Dolgarrog, SH77 67, W.McCarthy & M.Stead, 5th Nov 2021, second county record & first since at least 1929.
- +‡075/32.22. **Cotoneaster hjelmqvistii** (Hjelmqvist's Cotoneaster) (Cotoneaster Hjelmqvist). Sandy bank between beach & railway line, Deganwy, SH77 79, Wendy McCarthy, 18th Nov 2021.
- +‡075/32.40. **Cotoneaster sternianus** (Stern's Cotoneaster) (Cotoneaster Stern). Limestone grassland, Nant y Gamar, Llandudno, SH80 81, Wendy McCarthy, 21st Sep 2021.
- +077/07.1.a.coc. **Anthyllis vulneraria subsp. vulneraria var. coccinea**. Sandy grassland, Morfa Dinlle, SH43 59, W. McCarthy, M. Roberts & M.Stead, 11th Jun 2021; (+) sandy grassland, Morfa Dinlle, SH43 60, W. McCarthy, M. Roberts & M.Stead, 11th Jun 2021.
- +‡077/15.09. **Lathyrus latifolius** (Broad-leaved Everlasting-pea) (Ytbsyen Fythol Lydanddail). Sandy shingle beach, Penrhyn Bay, SH82 81, Wendy McCarthy, 21st Sep 2021.
- +‡091/2.05. **Euphorbia dulcis** (Sweet Spurge) (Llaethlys Pêr). Lane bank, Conwy, SH76 76, W.McCarthy & M.Stead, 22nd Oct 2021.
- +‡091/2.16.b. **Euphorbia amygdaloides subsp. robbiae**. Soil dump by footpath in wood, Trefriw, SH78 62, W.McCarthy & M.Stead, 30th Jul 2021.
- +094/1.1. **Linum bienne** (Pale Flax) (Llin Culddail). Grassland beside footpath, Llandudno Junction, SH78 78, Wendy McCarthy, 10th Aug 2021, perhaps introduced in wild flower seed mix.
- +102/1.03.cor.atr. **Oxalis corniculata var. atropurpurea**. Wall base at roadside, Great Orme, Llandudno, SH77 82, Wendy McCarthy, 26th Aug 2021.
- +‡102/1.14. **Oxalis incarnata** (Pale Pink-sorrel) (Suran Welw). Waste ground, Llandudno, SH77 82, Wendy McCarthy, 11th Nov 2021.
- +108/3.2. **Centaureum erythraea** (Common Centaury) (Y Ganrhi Goch). Grassland beside path, Penmachno, SH80 52, W.McCarthy & M.Stead, 16th Jul 2021.
- +‡110/7.1.© **Solanum lycopersicum** (Tomato) (Tomato). River bank, Trefriw, SH78 63, W.McCarthy & M.Stead, 21st Sep 2021.

- +‡116/09.1. **Borago officinalis** (Borage) (Tafod yr Ych). Lane bank, Conwy, SH76 76, W.McCarthy & M.Stead, 22nd Oct 2021.
- +‡117/1.bon. **Verbena bonariensis** (Argentinian Vervain) (Ferfain yr Ariannin). Wall top at roadside, Llandudno, SH77 82, Wendy McCarthy, 11th Nov 2021.
- +†118/23.3. **Mentha spicata** (Spear Mint) (Mintys Ysbigog). Hedge by track opposite houses, Pydew, SH81 79, Wendy McCarthy, 10th Sep 2021.
- +‡118/23.3×4. **Mentha ×villosa** (Apple-mint) (Mintys Lletgrwn). Roadside bank, Bryn Pydew, SH81 79, Wendy McCarthy, 25th May 2021.
- *‡118/23.6. **Mentha requienii** (Corsican Mint) (Mintys Corsica). Waste ground & paving, Treborth Botanic garden, Bangor, SH55 71, Wendy McCarthy, 14th Apr 2021, 1st. Vc record.
- +†124/12.1. **Kickxia elatine** (Sharp-leaved Fluellen) (Llyisiau-Llywelyn). Disused railway line, Dolgarrog, SH77 67, W.McCarthy & M.Stead, 5th Nov 2021, a single plant but first post-1930 record for hectad.
- +‡124/17.ell×spe. **Hebe ×franciscana (H. elliptica × H. speciosa)** (Hedge Veronica) (Pedwar-ban-byd y Berth). Cracks in wall, Penmaenmawr, SH71 76, W. McCarthy, M. Roberts & M.Stead, 2nd Dec 2021.
- +‡129/7.2.© **Lobelia erinus** (Garden Lobelia) (Bidoglys yr Ardd). River bank, Trefriw, SH78 63, W.McCarthy & M.Stead, 21st Sep 2021.
- +†135/12.1. **Cichorium intybus** (Chicory) (Ysgello). Field beside road, Talybont, Bangor, SH61 71, Julian Driver, 31st Jul 2021.
- +135/28.07.61. **Hieracium triviale** (Grey-headed Hawkweed). Steep grassy cliff, Great Orme, Llandudno, SH77 83, T.C.G.Rich, det. D.McCosh, conf. Sep-21, 12th Jul 2021.
- +†135/28.08.gen. **Hieracium gentile Jord. ex Boreau** (Foreign Hawkweed). Disturbed ground, Y Felinheli, SH52 67, Wendy McCarthy, det. Brian Burrow, conf. Oct-21, 17th May 2021, dozens of plants.
- +‡135/62.03.© **Senecio inaequidens** (Narrow-leaved Ragwort) (Creulys Gulddail). Sandy shingle beach, Penrhyn Bay, SH82 81, Tony Cumberlidge, 6th Sep 2021.
- +135/62.10×11. **Senecio ×ostenfeldii**. River bank, Llanrwst, SH79 61, W.McCarthy & M.Stead, 31st Jul 2021, both parents present nearby.
- *©135/CAT.cae. **Catananche caerulea** (Blue Cupidone) (Ysgello Glas). Top of shingle beach, Llandudno, SH80 82, Wendy McCarthy, 20th Jul 2021.
- *‡152/11.2. **Cyperus eragrostis** (Pale Galingale) (Ysnoden-Fair Welw). In tarmac at roadside, Great Orme, Llandudno, SH77 82, Wendy McCarthy, 15th Oct 2021.
- +152/16.43. **Carex extensa** (Long-bracted Sedge) (Hesgen-yr-heli Bractau Hir). Rocky shore near steps to beach, Bangor, SH56 71, Julian Driver, 17th Mar 2021.
- +‡153/46.2. **Polypogon viridis** (Water Bent) (Barfwellt y Dŵr). Disused railway line, Dolgarrog, SH77 67, W.McCarthy & M.Stead, 5th Nov 2021.
- ℞158/17.1. **Paris quadrifolia** (Herb-Paris) (Cwlwm Cariad). Woodland, Y Felinheli, SH52 68, Robbie Blackhall-Miles, 17th May 2021.
- *158/27.1. **Agapanthus praecox** (African Lily) (Lili-Affrica Gynnar). Wall base at roadside, Great Orme, Llandudno, SH76 82, Wendy McCarthy, 1st Oct 2021, 3 large clumps, mature plants in seed within garden below.
- +‡158/33.3. **Narcissus poeticus** (Pheasant's-eye Daffodil) (Cenhinen-Bedr y Beirdd). In grass at roadside, Talybont, Bangor, SH62 71, E.Phenna, 15th Apr 2021.

- +‡160/3.1. **Cordyline australis** (Cabbage-palm) (Palmwydden Fresych). Pavement edge, Penrhyn Bay, SH82 81, Wendy McCarthy, 21st Sep 2021.
- +162/23.3. **Ophrys apifera** (Bee Orchid) (Tegeirian y Wenynen). Sandy grassland, Morfa Dinlle, SH43 60, W. McCarthy, M. Roberts & M. Stead, 11th Jun 2021

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

+005/1.1. **Ophioglossum vulgatum** (Adder's-tongue) (Tafod y Neidr). Cefn-brith, SH9356 5162, A. Brandon, 29th Jun 2021, cefn-brith track. 5 plants found within 5 m of W side of track in short turf, 160 paces below footpath stile.

+‡020/2.1.© **Pseudotsuga menziesii** (Douglas Fir) (Ffynidwydden Douglas). Graianrhyd, SJ2167 5667, Denbs Group (D. Williams), 19th Jun 2021, roadside.

+‡020/7.2.a. **Pinus nigra subsp. nigra** (Austrian Pine) (Pinwydden Awstria).

Pwllgyrochan Woods, SH847 782, Denbs Group, 7th Nov 2021, unmade road. Residential area; (+) Hafod-wen, SH987 505, D. Williams, 24th Apr 2021, lane along W side of A. Alwen; (+) Wrexham Hospital, SJ329 509, D. Williams & G. Lowden, 24th Oct 2021, lane adjacent to railway. Two large trees.

*‡020/7.4.© **Pinus pinaster** (Maritime Pine) (Pinwydden Arfor). Abergele Hospital, SH9409 7587, Denbs Group (D. Williams), det. D. Williams, 22nd May 2021, coed-y-Blaidd garden. Large tree.

*‡021/2.2. **Chamaecyparis pisifera** (Sawara Cypress) (Cypreswydden Sawara). Abergele Hospital, SH948 757, Denbs Group (D. Williams), det. D. Williams, 22nd May 2021, woodland path through hospital grounds.

*‡024/1.1 **Laurus nobilis** (Bay) (Llawrwydden). Pwllgyrochan Woods, SH841 784, Denbs Group, 7th Nov 2021, roadside. B5113. A few bushes within wood. Origin?

+028/13.25. **Ranunculus penicillatus** (Stream Water-crowfoot) (Crafanc-y-frân y Nant). Llansannan, SH9357 6581, Denbs Group (D. Williams), det. D. Williams, 22nd Aug 2021, below bridge S side in rivulet.

+040/2.vir. **Alnus viridis** (Green Alder). Wrexham Hospital, SJ329 509, D. Williams & G. Lowden, 24th Oct 2021, frequently planted in amenity area.

+043/3.06. **Atriplex littoralis** (Grass-leaved Orache) (Llygwyn Arfor). Cae'r hafod-isa, SJ07 56, D. Williams, 29th Aug 2021, by salt bins along the lane.

+‡047/5.3. **Fallopia baldschuanica** (Russian-vine) (Clymog Rwsia). St Brigids, SJ060 673, Denbs Group (D. Williams), 14th Nov 2021, aTS carpark.

+‡051/1.01. **Hypericum calycinum** (Rose-of-Sharon) (Rhosyn Saron). Llansannan, SH934 658, Denbs Group (D. Williams), 22nd Aug 2021, around the village.

+053/2.1.‡ **Lavatera arborea** (Tree-mallow) (Hocyswydden). Alyn Waters Country Park, SJ324 551, D. Williams, 14th Aug 2021, short turf at side of path.

+‡062/33.2. **Diplotaxis muralis** (Annual Wall-rocket) (Roced-y-muriau'r Tywod). Glyn Ceiriog, SJ2017 3774, M.O. Stead, det. Denbs Group (D. Williams), 13th Aug 2021, a few plants growing between wall of public conveniences and pavement.

+069/4.2. **Lysimachia nummularia** (Creeping-Jenny) (Siani Lusz). Llansannan, SH9347 6588, Denbs Group (D. Williams), 22nd Aug 2021, above stream. Garden origin?

+‡074/03.1. **Bergenia crassifolia** (Elephant-ears) (Clustiau Eliffant). Terfyn, SH9138 7772, D. Williams & G. Lowden, 17th Apr 2021, limestone crags. Spreading at base of

cliffs, away from houses; (+) Overton, SJ372 417, K. K. Bell, 9th May 2021, growing against fence at top of lane leading to sewage works.

+074/05.19. **Saxifraga tridactylites** (Rue-leaved Saxifrage) (Tormaen Tribys). Llansannan, SH934 658, Denbs Group (D. Williams), 22nd Aug 2021, around the village.

*‡075/13.3. **Geum macrophyllum** (Large-leaved Avens) (Mapgoll Fawr)). Llanrhaeadr DC West, SJ07 63, Tom Knight, 28th Jun 2021, locally frequent by track edge and adjacent tall herb/grass vegetation on edge of woodland at Llewesog Hall near Pentre Llanrhaedr. photo confirms.

+075/21.12.Pub. **Rosa canina group 'Pubescentes'**. Llansannan, SH9358 6586, Denbs Group (D. Williams), det. D. Williams, 22nd Aug 2021, large bush N side of main road. *Rosa corymbifera* in Maskew key.

+075/21.13. **Rosa caesia**. Gwynt Farm, SJ402 432, K. K. Bell, 20th Jun 2021, roadside hedgerow S of Cloy Hall.

+075/21.19. **Rosa micrantha** (Small-flowered Sweet-briar) (Drysien Bêr Fân-flodeuog). Rhyd-y-foel, SH9127 7634, Denbs Group (D. Williams), det. D. Williams, 9th May 2021, sSSI Steep limestone escarpment. A few bushes.

+075/22.11. **Prunus padus** (Bird Cherry) (Coeden Geirios yr Adar). Cefn, SJ0172 7135, Denbs Group (D. Williams), det. D. Williams, 16th May 2021, laneside. Single tree.

+‡075/22.13. **Prunus lusitanica** (Portugal Laurel) (Coeden Lawrgeirios Portiwgal). Llansannan, SH937 659, Denbs Group (D. Williams), 22nd Aug 2021, track through trees.

+077/08.2. **Lotus corniculatus** (Common Bird's-foot-trefoil) (Pysen-y-ceirw). Carnedd Iago, SH78 41, N.J. Osley, 4th Aug 2021, blanket mire. Evidence of reduced grazing Amongst rushes besides Afon Serw.

+077/15.12. **Lathyrus nissolia** (Grass Vetchling) (Ytbysen Feinddail). Penmaen Rhos, SH8806 7874, T. Cumberlidge, 6th Jun 2021, in good numbers on the embankment above the coastal path 26m W of the N end of the Rainbow Bridge.

*‡080/1.man. **Gunnera manicata** (Brazilian Giant-rhubarb) (Rheonllys Mawr Brasil). Garthewin, SH91 70, N.J. Osley & S.K. Osley, 31st May 2021.

+‡084/5.1. **Fuchsia magellanica** (Fuchsia) (Ffiwsia). Llansannan, SH9344 6590, Denbs Group (D. Williams), 22nd Aug 2021, large bush just above the stream. Unlikely to have been planted there.

+‡085/1.2. **Cornus sericea** (Red-osier Dogwood) (Cwyrosyn Cochfrig). Bettisfield, SJ462 359, K. K. Bell, 17th Oct 2021, large colony on N side of old railway E of Bettisfield Bridge.

+‡085/2.1. **Aucuba japonica** (Spotted-laurel) (Coeden Frech Felen). Abergele Hospital, SH948 757, Denbs Group (D. Williams), det. D. Williams, 22nd May 2021, woodland path through hospital grounds.

+088/1.1. **Euonymus europaeus** (Spindle) (Piswydden). Trefydd Bychain, SJ2019 5060, D. Williams, 9th Jun 2021, y Graig private land. Mixed ash woodland and limestone outcrops.

*‡102/1.14. **Oxalis incarnata** (Pale Pink-sorrel) (Suran Welw). Colwyn Bay, SH848 791, S. Coleman, 23rd Sep 2021.

+107/20.1. **Aethusa cynapium** (Fool's Parsley) (Geuberllys). Llansannan, SH9355 6566, Denbs Group (D. Williams), 22nd Aug 2021, path E side of stream.

- +‡110/9.1. **Datura stramonium** (Thorn-apple) (Afal Dreiniog). Old Sontley, SJ3304 4606, Denbs Group (D. Williams), det. D. Williams, 25th Apr 2021, remains of large plant on W side of lane.
- +111/3.2×4. **Calystegia sepium** × **C. silvatica** = **C. ×lucana**. Rossett, SJ37 56, Jonathan D. Shanklin, 12th Jul 2021, flowering; (+) Trevalyn, SJ39 57, Jonathan D. Shanklin, 11th Jul 2021, flowering.
- +116/02.1. **Echium vulgare** (Viper's-bugloss) (Gwiberlys). Llanddulas, SH9067 7862, T. Cumberlidge, det. D. Williams, 16th Aug 2021, along the edge of the coastal path; (+) Marine Lake, SJ001 805, T. Cumberlidge, 1st Aug 2021, a nice carpet growing to the perimeter of the lake.
- +‡116/04.4. **Symphytum grandiflorum** (Creeping Comfrey) (Cyfardwf Lusz). Pentrecerrig, SJ1910 6044, Denbs Group (D. Williams), 12th Jun 2021, lane.
- *‡116/06.3. **Anchusa azurea** (Garden Anchusa) (Llysiau'r-gwrid Glas). Hen Wrych Farm, SH9291 7822, T. Cumberlidge, det. D. Williams, 25th May 2021, n side of sea wall. Where sea defence boulders start. Photo; (*) Pentre Mawr Park, SH9416 7855, D Williams & M.O. Stead, 16th Jun 2021, single large plant in flower on R hand side of gate below and just to W of roadbridge. **Hb DW**
- +‡118/24.1. **Rosmarinus officinalis** (Rosemary) (Rhosmari). Denbigh Town East, SJ063 662, Denbs Group (D. Williams), 14th Nov 2021, along A543. Growing out of cracks in pavement.
- +‡123/1.sus×vir. **Forsythia suspensa** × **F. viridissima** = **F. ×intermedia** (Forsythia) (Clychau Aur). Llansannan, SH9347 6588, Denbs Group (D. Williams), 22nd Aug 2021, directly above stream. Planted?
- *‡123/JAS.bec. **Jasminum beesianum** (Red Jasmine) (Jasmin Coch). Trefydd Bychain, SJ2015 5054, D. Williams, 9th Jun 2021, y Graig private land. Mixed ash woodland and limestone outcrops. Single small plant in flower growing out of crack in limestone. **Hb DW**
- +‡124/04.2. **Mimulus guttatus** (Monkeyflower) (Blodyn Mwnci). Hafod-wen, SH987 505, D. Williams, 24th Apr 2021, lane along W side of A. Alwen.
- +‡124/07.1. **Antirrhinum majus** (Snapdragon) (Trwyn y Llo). Llansannan, SH935 657, Denbs Group (D. Williams), 22nd Aug 2021, riverbank.
- +‡124/16.24.b. **Veronica hederifolia subsp. lucorum**. Hafod-wen, SH987 505, D. Williams, 24th Apr 2021, lane along W side of A. Alwen.
- +124/20.off. **Euphrasia officinalis agg.** (Eyebright). Carnedd Iago, SH78 41, N.J. Osley, 4th Aug 2021, blanket mire. Evidence of reduced grazing.
- +131/2.2.‡ **Viburnum lantana** (Wayfaring-tree) (Gwifwrnwydden). Bettisfield East, SJ466 360, K. K. Bell, 17th Oct 2021, s side of old railway E of Bettisfield Hall Farm; several small trees.
- +‡135/12.1. **Cichorium intybus** (Chicory) (Ysgello). Holt South, SJ419 523, A. N. Graham & J. Graham, 16th Aug 2021, frequent along edge of field by the river.
- +‡135/17.1. **Helminthotheca echioides** (Bristly Oxtongue) (Tafod-y-llew Gwrychog). Coed Cestyll, SJ194 376, Denbs Group (D. Williams), det. D. Williams, 11th Aug 2021.
- *135/25.01.24. **Taraxacum scoticum** (Scottish Dandelion). Llysfaen, SH883 774, T. Cumberlidge, det. Prof. A.J. Richards, 30th Apr 2021, unimproved limestone grassland. Photo and specimen. Ty Mawr.

- +135/25.01.3. **Taraxacum argutum** (Sharp-toothed Dandelion). Llysfæen, SH883 775, T. Cumberlidge, det. Prof. A.J. Richards, 9th May 2021, unimproved limestone grassland. Photo and specimen. Ty Mawr.
- +135/25.08.84. **Taraxacum atactum** (Narrow-bracted Dandelion). Llysfæen, SH885 776, T. Cumberlidge, det. Prof. A.J. Richards, 6th May 2021, unimproved limestone grassland. Photo and specimen. Ty Mawr.
- +135/25.08.85. **Taraxacum boekmanii** (Bokman's Dandelion). Coed Annie, SH849 679, T. Cumberlidge, det. Prof. A.J. Richards, 2nd May 2021, lane verge. Photo and specimen.
- *‡135/25.09.145. **Taraxacum intumescens** (Red-tipped Dandelion). Llysfæen, SH883 775, T. Cumberlidge, det. Prof. A.J. Richards, 2nd May 2021, unimproved limestone grassland. Photo and specimen. Ty Mawr.
- *‡135/25.09.196. **Taraxacum scotiniforme** (Deltoid-lobed Dandelion). Dolwen, SH883 774, T. Cumberlidge, det. Prof. A.J. Richards, 30th Apr 2021, unimproved limestone grassland. Photo.
- +135/28.10.168. **Hieracium hypochaeroides** (Cat's-ear Hawkweed). Llanddulas, SH914 785, T. Cumberlidge, det. D. Williams, 28th Aug 2021, very spotted leaves on limestone.
- *135/43.flo. **Erigeron floribundus**. St Brigids, SJ0603 6732, Denbs Group (D. Williams), 14th Nov 2021, aTS carpark. Several tall unruly plants scattered around. Five-lobed petals.
- +‡135/62.03. **Senecio inaequidens** (Narrow-leaved Ragwort) (Creulys Gulddail). Belgrano North, SH959 793, T. Cumberlidge, det. D. Williams, 20th Aug 2021, on the coastal footpath.
- +‡147/2.1. **Lysichiton americanus** (American Skunk-cabbage) (Pidyn-y-gog Americanaidd). Garthewin, SH91 70, N.J. Osley & S.K. Osley, 31st May 2021.
- +‡147/5.2. **Arum italicum** (Italian Lords-and-Ladies) (Pidyn-y-gog Eidalaid). Overton, SJ372 417, K. K. Bell, 9th May 2021, small patch near top of lane.
- +‡152/11.2. **Cyperus eragrostis** (Pale Galingale) (Ysnoden-Fair Welw). Parc Eirias, SH859 783, S. Coleman, 14th Sep 2021, photos confirm. By boating lake. Probably introduced.
- +152/16.01. **Carex paniculata** (Greater Tussock-sedge) (Hesgen Rafunog Fawr). Esclusham Mountain, SJ241 504, A. N. Graham & J. Graham, 30th Jun 2021, many plants just here.
- +153/12.07.b. **Festuca rubra subsp. juncea**. Pensarn, SH93 78, D. Williams, det. Steve Clarkson, 22nd Jun 2021, frequent along beach.
- +153/15.1. **Cynosurus cristatus** (Crested Dog's-tail) (Rhonwellt y Ci). Carnedd Iago, SH78 41, N.J. Osley, 4th Aug 2021, blanket mire. Evidence of reduced grazing.
- +153/24.2×4. **Glyceria fluitans** × **G. notata** = **G. ×pedicellata** (Hybrid Sweet-grass) (Melyswellt Croesryw). Trevalyn Meadows, triangular meadow, SJ402 578, Jonathan D. Shanklin, 11th Jul 2021, flowering.
- +153/32.1.b. **Deschampsia cespitosa subsp. parviflora** (Small-flowered Hair-grass). Abergele Hospital, SH948 757, Denbs Group (D. Williams), det. D. Williams, 22nd May 2021, woodland path through hospital grounds.
- +‡153/39.2. **Agrostis gigantea** (Black Bent) (Maeswellt Mawr). Trevalyn Meadows, SJ40 57, Jonathan D. Shanklin, 11th Jul 2021, flowering.
- *153/46.1. **Polyopogon monspeliensis** (Annual Beard-grass) (Barfwellt Unflwydd). Plas-onn, SH92550 76575, N.J. Osley & S.K. Osley, det. D. Williams, conf. Wendy McCarthy,

1st Jan 2021, a number of tufts, roadside verge at base of limestone wall opposite Betws Lodge. Photo, **Hb DW**

+‡153/46.2. **Polygonon viridis** (Water Bent) (Barfwellt y Dŵr). Llansannan, SH9345 6585, Denbs Group (D. Williams), 22nd Aug 2021, frequent in pavement cracks along small lane, where many cars parked.

+153/58.1 **Hordelymus europaeus** (Wood Barley) (*Hordelymus europaeus* - wood barley - heiddwellt y coed)). Pant Glas Isaf, SJ0968 5916, Tom Knight, 28th Jun 2021, patch by Lady Bagot's Drive.

+158/14.1.‡ **Polygonatum multiflorum** (Solomon's-seal) (Llysiau-Solomon). Hafod-wen, SH987 505, D. Williams, 24th Apr 2021, lane along W side of A. Alwen. Presumably escaped or dumped from houses opposite.

*158/24.cri. **Allium cristophii** (Star of Persia). Llanddulas, SH917 783, T. Cumberlidge, 7th Jun 2021, at the edge of a ditch at the E end of the Beach House.

+‡158/32.1. **Galanthus nivalis** (Snowdrop) (Eirlys). Llanfihangel Glyn Myfyr, SH985 496, D. Williams, 24th Apr 2021, churchyard.

+158/34.1-2. **Asparagus officinalis** (Merllys). Belgrano, SH9504 7892, M.O. Stead, 16th Jun 2021, between fence and railway line

FLINT, v.c.51 (comm. Jonathan Shanklin)

c1-1-vul **Chara vulgaris** (Common Stonewort). Park in the Past, SJ3015 5904, Jonathan Shanklin, 8th Jun 2021, locally frequent on seasonally flooded floor of damp glade in birch scrub, near seasonal pond. Also at the same site in SJ29 58.

017/3.03.a. **Dryopteris affinis subsp. affinis**. Buckley, Lower Common SSSI, SJ27 64, Jonathan Shanklin, 23rd Oct 2021.

‡020/7.6. **Pinus strobus** (Weymouth Pine) (Pinwydden Wen). Mostyn, SJ14 81, Jonathan Shanklin, 5th Jun 2021.

‡021/1.1. **Cupressus macrocarpa** (Monterey Cypress) (Cypreswydden Monterey). Prestatyn, dunes, SJ04 83, Jonathan Shanklin, 9th Jul 2021.

‡021/3.1. **Thuja plicata** (Western Red-cedar) (Cedrwydden Goch). Mostyn, SJ15 81, Jonathan Shanklin, 5th Jun 2021; Bilberry Wood, SJ31 64, Jonathan Shanklin, 26th Oct 2021.

028/01.1. **Caltha palustris** (Marsh-marigold) (Gold y Gors). Mostyn, SJ14 81, Jonathan Shanklin, 5th Jun 2021.

028/12.1. **Clematis vitalba** (Traveller's-joy) (Barf yr Hen Wŵr). Park in the Past, SJ30 59, Jonathan Shanklin, 10th Aug 2021.

028/13.11. **Ranunculus sceleratus** (Celery-leaved Buttercup) (Crafanc yr Eryr). Park in the Past, SJ29 59, Jonathan Shanklin, 10th Aug 2021.

028/13.19. **Ranunculus omiophyllus** (Round-leaved Crowfoot) (Crafanc-y-frân y Rhostir). Bilberry Wood, SJ3133 6411, Jonathan Shanklin, 26th Oct 2021, muddy track.

028/13.23. **Ranunculus aquatilis sens. lat.** (Common Water-crowfoot) (Crafanc-y-frân y Dŵr). Rhuddlan Castle, SJ02 77, Jonathan Shanklin, 9th Aug 2021.

‡030/1.2.© **Papaver atlanticum** (Atlas Poppy) (Pabi'r Atlas). Prestatyn, SJ05 83, Jonathan Shanklin, 9th Jul 2021, on roundabout SJ051831.

‡030/6.1.© **Eschscholzia californica** (Californian Poppy) (Pabi California). Prestatyn, SJ05 83, Jonathan Shanklin, 9th Jul 2021.

031/5.03. **Fumaria bastardii** (Tall Ramping-fumitory) (Mwg-y-ddaeear Grymus). Park in the Past, SJ30 58, Jonathan Shanklin, 10th Aug 2021.

034/2.1. **Humulus lupulus** (Hop) (Hopys). Mostyn, SJ14 81, Jonathan Shanklin, 5th Jun 2021.

‡037/1.1. **Juglans regia** (Walnut) (Coeden Cnau Ffrengig). Park in the Past, SJ30 58, Jonathan Shanklin, 8th Jun 2021; Saltney, Dee washes, SJ37 65, Jonathan Shanklin, 4th Jun 2021.

‡039/1.1.pur. **Fagus sylvatica 'purpurata'** (Copper Beach). Rhewl-Mostyn, SJ14 80, Jonathan Shanklin, 5th Jun 2021.

‡040/2.3. **Alnus cordata** (Italian Alder) (Gwernen yr Eidal). Park in the Past, SJ29 58, Jonathan Shanklin, 10th Aug 2021.

043/4.1.a. **Beta vulgaris subsp. maritima** (Sea Beet) (Betysen Arfor). Afon Clwyd washes, SJ01 78, Jonathan Shanklin, 9th Aug 2021.

046/01.1.a. **Arenaria serpyllifolia subsp. serpyllifolia** (Thyme-leaved Sandwort). Marian Ffrith, field, SJ07 78, Jonathan Shanklin, 9th Jul 2021; Park in the Past, SJ29 58, Jonathan Shanklin, 8th Jun 2021; Park in the Past, SJ30 59, Jonathan Shanklin, 8th Jun 2021.

046/05.8. **Stellaria alsine [S. uliginosa]** (Bog Stitchwort) (Serenllys y Gors). Park in the Past, SJ30 58, Jonathan Shanklin, 8th Jun 2021.

046/07.10. **Cerastium diffusum** (Sea Mouse-ear) (Clust-y-llygoden Arfor). Halkyn Common and Holywell SSSI, SJ20 70, Jonathan Shanklin, 5th Jun 2021.

046/10.7.b. **Sagina filicaulis**. Park in the Past, SJ30 58, Jonathan Shanklin, 8th Jun 2021.

046/20.09×01. **Silene ×hampeana** ([Pink Campion]). Park in the Past, SJ30 58, Jonathan Shanklin, 10th Aug 2021.

047/1.12. **Persicaria lapathifolia** (Pale Persicaria) (Canwraidd y Dom). Park in the Past, SJ29 58, Jonathan Shanklin, 10th Aug 2021; Park in the Past, SJ30 58, Jonathan Shanklin, 10th Aug 2021.

‡047/4.6. **Polygonum rurivagum** (Cornfield Knotgrass) (Canclwm y Tir Âr). Rhuddlan, SJ0268 7925, Jonathan Shanklin, 9th Aug 2021, locally frequent along edge of maize field.

‡047/5.4. **Fallopia convolvulus** (Black-bindweed) (Y Glymog Ddu). Park in the Past, SJ29 58, Jonathan Shanklin, 10th Aug 2021. Also at the same site in SJ30 58.

047/8.13.b. **Rumex crispus subsp. littoreus** (a subspecies of Curled Dock). Afon Clwyd washes, SJ01 78, Jonathan Shanklin, 9th Aug 2021.

051/1.09. **Hypericum tetrapterum** (Square-stalked St John's-wort) (Eurinllys Pedronglog). Park in the Past, SJ29 58, Jonathan Shanklin, 10th Aug 2021.

‡057/1.13. **Viola arvensis** (Field Pansy) (Trilliw'r Tir Âr). Prestatyn, SJ05 83, Jonathan Shanklin, 9th Jul 2021; Hope, SJ31 59, Jonathan Shanklin, 6th Jun 2021.

061/1.2. **Populus tremula** (Aspen) (Aethnen). Hope, SJ32 59, Jonathan Shanklin, 18th Apr 2022.

©061/1.bal. **Populus balsamifera** (Eastern Balsam-poplar) (Poplysen Falmaidd y Dwyrain). Bilberry Wood, SJ31 64, Jonathan Shanklin, 26th Oct 2021.

‡061/2.03. **Salix alba** (White Willow) (Helygen Wen). Park in the Past, SJ3007 5896, Jonathan Shanklin, 8th Jun 2021, a couple of young saplings at pond edge.

©061/2.03×bab. **Salix ×sepulcralis** ([Hybrid Weeping-willow]) (Helygen Wylofus). Buckley, Middle Common, SJ27 65, Jonathan Shanklin, 23rd Oct 2021.

061/2.09×11. **Salix ×holosericea (S. viminalis × S. cinerea) [S. ×smithiana]** (Silky-leaved Osier) (Helygen Dail Sidan). Hope, SJ31 59, Jonathan Shanklin, 6th Jun 2021.

061/2.10×11. **Salix ×reichardtii**. Hope, SJ31 59, Jonathan Shanklin, 6th Jun 2021.

061/2.10×12. **Salix ×capreola**. Warren Bank, SJ32 63, Jonathan Shanklin, 6th Aug 2021.

062/12.4. **Rorippa palustris** (Marsh Yellow-cress) (Berwr Melyn y Gors). Park in the Past, SJ29 58, Jonathan Shanklin, 10th Aug 2021, on recently created bank of gravel of 'emergent glacial landscape' in same area as other plants. Also at the same site in SJ30 58 eg SJ30025870.

062/23.1×3 **Cochlearia ×hollandica**. Mostyn, coast, SJ14 81, Jonathan Shanklin, 5th Jun 2021; Higher Ferry, SJ3759 6544, Jonathan Shanklin, 4th Jun 2021, all leaves cuneate, pods wider than long. Eric Greenwood has not been able to determine either parent along the Dee.

‡062/33.2. **Diploxys muralis** (Annual Wall-rocket) (Roced-y-muriau'r Tywod). Park in the Past, SJ29 58, Jonathan Shanklin, 10th Aug 2021.

065/13.6. **Vaccinium myrtillus** (Bilberry) (Llusen). Halkyn Common and Holywell SSSI, SJ20 70, Jonathan Shanklin, 5th Jun 2021.

066/1.3. **Pyrola rotundifolia** (Round-leaved Wintergreen) (Glesyn-y-gaeaf Deilgrwn). Park in the Past, SJ3010 5908, Jonathan Shanklin, 8th Jun 2021, under birch scrub.

066/1.3.b. **Pyrola rotundifolia subsp. maritima**. Park in the Past, SJ3010 5908, Jonathan Shanklin, 10th Aug 2021, plants over about 80cm. Det on basis of at least 3 stem leaves, and obtuse sepals.

‡075/03.2. **Spiraea alba** (Pale Bridewort) (Erwain Gwyn). Buckley, Middle Common, SJ2779 6476, Jonathan Shanklin, 23rd Oct 2021.

‡075/03.2×3. **Spiraea ×billardii** (Billard's Bridewort) (Erwain Billard). Park in the Past, SJ30 58, Jonathan Shanklin, 10th Aug 2021.

‡075/08.05.134. **Rubus armeniacus**. Park in the Past, SJ30 59, Jonathan Shanklin, 8th Jun 2021.

075/20.1. **Aphanes arvensis** (Parsley-piert) (Troed y Dryw). Park in the Past, SJ30 58, Jonathan Shanklin, 8th Jun 2021.

075/27.1. **Malus sylvestris sens. lat.** (Crab Apple) (Coeden Afalau Surion). Hope, SJ31 59, Jonathan Shanklin, 6th Jun 2021.

075/28.09.agg. **Sorbus aria agg.**. Bilberry Wood, SJ31 64, Jonathan Shanklin, 26th Oct 2021.

‡075/32.13. **Cotoneaster lacteus** (Late Cotoneaster) (Cotoneaster Diweddar). Mynydd Isa, Wat's Dyke Park, SJ26 64, Jonathan Shanklin, Liz Shanklin, 26th Dec 2021.

‡075/32.34. **Cotoneaster bullatus** (Hollyberry Cotoneaster) (Cotoneaster Deilgrych). Halkyn Common and Holywell SSSI, SJ20 70, Jonathan Shanklin, 5th Jun 2021.

077/04.4. **Astragalus glycyphyllos** (Wild Liquorice) (Llaethwyg Licoris). Park in the Past, SJ3018 5893, Jonathan Shanklin, 8th Jun 2021, two plants in woodland near edge of the park. Probably introduced from Marford Quarry.

©077/14.11.c. **Vicia sativa subsp. sativa** (Pupysen). Higher Ferry, SJ37 65, Jonathan Shanklin, 4th Jun 2021.

077/18.5‡ **Medicago arabica** (Spotted Medick) (Maglys Brith). Prestatyn, SJ0514 8317, Jonathan Shanklin, 9th Jul 2021, locally frequent on rough verge.

077/19.20. **Trifolium striatum** (Knotted Clover) (Meillionen Rychog). Park in the Past, SJ29 59, Jonathan Shanklin, 10th Aug 2021, on barish bank at north-west end of lake.

077/26.1×2. **Ulex ×breoganii (U. europaeus × U. gallii)**. Rhes-y-cae, SJ1947 7072, Jonathan Shanklin, 5th Jun 2021, bracteoles small and separated from flower.

‡078/2.1. **Elaeagnus umbellata** (Spreading Oleaster) (Oleaster). Prestatyn, dunes, SJ0503 8329, Jonathan Shanklin, 9th Jul 2021, young sapling.

‡084/4.1. **Oenothera glazioviana** (Large-flowered Evening-primrose) (Melyn-yr-hwyr Mawr). Park in the Past, SJ29 59, Jonathan Shanklin, 10th Aug 2021. Also at the same site in SJ30 58.

085/1.1.aus. **Cornus sanguinea subsp. australis** (Dogwood) (Cwyrosyn). Park in the Past, SJ30 59, Jonathan Shanklin, 8th Jun 2021.

‡098/1.2. **Aesculus carnea** (Red Horse-chestnut) (Castanwydden-y-meirch Goch). Rhewl-Mostyn, SJ14 80, Jonathan Shanklin, 5th Jun 2021.

‡099/1.2. **Acer cappadocicum** (Cappadocian Maple) (Masarnen Capadocia). Rhewl-Mostyn, SJ14 80, Jonathan Shanklin, 5th Jun 2021.

‡101/1.1. **Ailanthus altissima** (Tree-of-heaven) (Coeden y Nefoedd). Marian Ffrith, lane, SJ07 78, Jonathan Shanklin, 9th Jul 2021.

103/1.15. **Geranium pusillum** (Small-flowered Crane's-bill) (Pig-yr-aran Fân-flodeuog). Park in the Past, SJ29 59, Jonathan Shanklin, 8th Jun 2021.

107/01.1. **Hydrocotyle vulgaris** (Marsh Pennywort) (Dail-ceiniog y Gors). Park in the Past, SJ30 59, Jonathan Shanklin, 8th Jun 2021.

107/19.4. **Oenanthe lachenalii** (Parsley Water-dropwort) (Cegiden Dail Persli). Afon Clwyd washes, SJ0189 7828, Jonathan Shanklin, 9th Aug 2021, one plant here, around 10 plants at SJ01717846 and occasional plants northwards.

107/20.1. **Aethusa cynapium** (Fool's Parsley) (Geuberllys). Rhuddlan, SJ02 78, Jonathan Shanklin, 9th Aug 2021.

107/28.1. **Apium graveolens** (Wild Celery) (Seleri Gwyllt). Afon Clwyd washes, SJ0155 7858, Jonathan Shanklin, 9th Aug 2021, three plants here and local northwards.

114/1.1.‡ **Polemonium caeruleum** (Jacob's-ladder) (Ysgol Jacob). A55 verge, SJ3112 6367, Jonathan Shanklin, 23rd Oct 2021, patch over about 50 cm on south side near footbridge. The garden cultivar rather than the native species as leaflets fairly broad.

‡116/09.1. **Borago officinalis** (Borage) (Tafod yr Ych). Gwern Estyn, SJ32 57, Jonathan Shanklin, 19th Apr 2022.

116/15.10. **Myosotis discolor** (Changing Forget-me-not) (Sgorpionllys y Amryliw). Park in the Past, SJ29 59, Jonathan Shanklin, 8th Jun 2021, grassland by the beach. Also at the same site in SJ30 58.

‡117/1.bon. **Verbena bonariensis** (Argentinian Vervain) (Ferfain yr Ariannin). Park in the Past, SJ2995 5905, Jonathan Shanklin, 10th Aug 2021, recorded in case it spreads.

118/01.6. **Stachys palustris** (Marsh Woundwort) (Briwllys y Gors). Hope, SJ31 59, Jonathan Shanklin, 6th Jun 2021.

118/02.1. **Ballota nigra** (Black Horehound) (Marddanhadlen Ddu). Rhuddlan, SJ02 78, Jonathan Shanklin, 9th Aug 2021.

‡118/04.1.c. **Lamium galeobdolon subsp. argentatum**. Mostyn, SJ14 81, Jonathan Shanklin, 5th Jun 2021.

118/06.4. **Galeopsis tetrahit** (Common Hemp-nettle) (Y Benboeth). Park in the Past, SJ3017 5882, Jonathan Shanklin, 10th Aug 2021, unusual cream flowered variant at edge of track; Bilberry Wood, SJ31 64, Jonathan Shanklin, 26th Oct 2021.

118/10.2. **Scutellaria galericulata** (Skullcap) (Cycyllog). Rhuddlan Castle, SJ0240 7786, Jonathan Shanklin, 9th Aug 2021, clump of non flowering plants on damp ground by old wall foundations at base of slope down to river.

118/12.1. **Ajuga reptans** (Bugle) (Glesyn y Coed). Bilberry Wood, SJ31 64, Jonathan Shanklin, 26th Oct 2021.

118/22.1. **Lycopus europaeus** (Gypsywort) (Llyisiau'r Sipsiwn). Park in the Past, SJ29 59, Jonathan Shanklin, 10th Aug 2021.

‡118/23.3×4. **Mentha ×villosa** (Apple-mint) (Mintys Lletgrwn). Higher Kinnerton, SJ33 60, Jonathan Shanklin, 18th Apr 2022.

121/1.1. **Plantago coronopus** (Buck's-horn Plantain) (Llyriad Corn Carw). Park in the Past, SJ30 58, Jonathan Shanklin, 8th Jun 2021, vegetable garden area.

121/1.3.a. **Plantago major subsp. major**. Park in the Past, SJ29 59, Jonathan Shanklin, 10th Aug 2021; Buckley, Lower Common SSSI, SJ27 65, Jonathan Shanklin, 23rd Oct 2021.

©123/2.orn. **Fraxinus ornus** (Manna Ash). Rhewl-Mostyn, SJ14 80, Jonathan Shanklin, 5th Jun 2021.

124/16.06. **Veronica officinalis** (Heath Speedwell) (Rhwyddlwyn Meddygol). Rhewl-Mostyn, SJ14 80, Jonathan Shanklin, 5th Jun 2021; Bilberry Wood, SJ31 64, Jonathan Shanklin, 26th Oct 2021.

124/16.11. **Veronica anagallis-aquatica** (Blue Water-Speedwell) (Graeanllys y Dŵr). Park in the Past, SJ2997 5886, Jonathan Shanklin, 10th Aug 2021, in damp/wet area of old track. Also at the same site at SJ3003 5968 on 8th Jun 2021 in small pond to east of track.

125/2.10. **Orobanche minor** (Common Broomrape) (Gorfanhadlen). Prestatyn, dunes, SJ0523 8340, Jonathan Shanklin, 9th Jul 2021, tentatively identified as var pseudoamethystea by Fred Rumsey and Chris Thorogood, but needs a visit whilst in early flower.

‡129/1.9.© **Campanula portenschlagiana** (Adria Bellflower) (Clychlys Adria). Rhuddlan, church, SJ021 781, Jonathan Shanklin, 9th Aug 2021.

130/6.05.a. **Galium palustre subsp. palustre** (Common Marsh-bedstraw). Rhuddlan Castle, SJ02 77, Jonathan Shanklin, 9th Aug 2021; Park in the Past, SJ29 59, Jonathan Shanklin, 10th Aug 2021; Buckley, Lower Common SSSI, SJ269 653, Jonathan Shanklin, 23rd Oct 2021; Hope, SJ32 59, Jonathan Shanklin, 18th Apr 2022.

131/2.2. **Viburnum lantana** (Wayfaring-tree) (Gwifwrnwydden). Prestatyn, SJ05 83, Jonathan Shanklin, 9th Jul 2021.

‡131/6.2. **Lonicera nitida** (Wilson's Honeysuckle) (Gwyddfifd Wilson). Warren Bank, SJ32 63, Jonathan Shanklin, 6th Aug 2021.

133/1.1. **Valerianella locusta** (Common Cornsalad) (Gwylaeth yr Oen). Park in the Past, SJ29 58, Jonathan Shanklin, 8th Jun 2021.

134/5.1. **Scabiosa columbaria** (Small Scabious) (Clafirllys Bach). Park in the Past, SJ2995 5905, Jonathan Shanklin, 10th Aug 2021, introduced: recorded in case it spreads.

135/01.1.sl. **Arctium lappa**. Park in the Past, SJ29 59, Jonathan Shanklin, 8th Jun 2021, by footpath.

- ‡135/11.2. **Centaurea montana** (Perennial Cornflower) (Y Benlas Luosflwydd). Mostyn, SJ14 81, Jonathan Shanklin, 5th Jun 2021.
- †135/17.1. **Helminthotheca echioides** (Bristly Oxtongue) (Tafod-y-llew Gwrychog). Park in the Past, SJ29 59, Jonathan Shanklin, 10th Aug 2021.
- ‡135/19.1.a. **Tragopogon pratensis subsp. pratensis**. Mostyn, SJ14 81, Jonathan Shanklin, 5th Jun 2021.
- 135/19.1.b. **Tragopogon pratensis subsp. minor**. Park in the Past, SJ30 59, Jonathan Shanklin, 8th Jun 2021.
- †135/22.1. **Lactuca serriola** (Prickly Lettuce) (Letusen Bigog). Hope, SJ31 59, Jonathan Shanklin, 6th Jun 2021.
- 135/31.1. **Antennaria dioica** (Mountain Everlasting) (Edafeddog y Mynydd). Halkyn Common SSSI, SJ1881 7257, Jonathan Shanklin, 13th Jul 2021, plants over about 50cm on hummocky limestone heath under a pair of protective cages (one old, one more recent), with vegetative stems escaping from them slightly. Immediate associates include *Euphrasia confusa*, *Briza media*, *Poterium sanguisorba*.
- 135/35.3. **Inula conyzae** (Ploughman's-spikenard) (Meddyg y Bugail). Park in the Past, SJ29 59, Jonathan Shanklin, 8th Jun 2021.
- 135/37.1. **Pulicaria dysenterica** (Common Fleabane) (Cedowydd). Park in the Past, SJ29 59, Jonathan Shanklin, 10th Aug 2021.
- ‡135/41.4×5. **Aster ×salignus** (Common Michaelmas-daisy) (Blodyn Mihangel). Buckley, Lower Common SSSI, SJ269 653, Jonathan Shanklin, 23rd Oct 2021.
- ‡135/43.4. **Erigeron karvinskianus** (Mexican Fleabane) (Amrhydlwyd y Cerrig). Rhuddlan, SJ02 78, Jonathan Shanklin, 9th Aug 2021.
- ‡135/44.1. **Conyza canadensis** (Canadian Fleabane) (Amrhydlwyd Canada). Park in the Past, SJ29 58, Jonathan Shanklin, 10th Aug 2021.
- ‡135/44.2. **Conyza sumatrensis** (Guernsey Fleabane) (Amrhydlwyd Guernsey). Rhuddlan, SJ02 78, Jonathan Shanklin, 9th Aug 2021.
- ‡135/62.18. **Senecio viscosus** (Sticky Groundsel) (Creulys Ludiog). Rhuddlan, SJ02 78, Jonathan Shanklin, 9th Aug 2021; Park in the Past, SJ29 58, Jonathan Shanklin, 10th Aug 2021. Also at the same site in SJ30 58.
- 141/1.1. **Triglochin palustre** (Marsh Arrowgrass) (Saethbennig y Gors). Rhuddlan Castle, SJ02 77, Jonathan Shanklin, 9th Aug 2021.
- 142/1.13. **Potamogeton pusillus** (Lesser Pondweed) (Dyfrllys Eiddil). Park in the Past, SJ300 590, Jonathan Shanklin, 10th Aug 2021, small pond in conservation area.
- 142/1.19. **Potamogeton crispus** (Curled Pondweed) (Dyfrllys Crych). Park in the Past, SJ29 59, Jonathan Shanklin, 8th Jun 2021.
- 142/1.21. **Potamogeton pectinatus** (Fennel Pondweed) (Dyfrllys Blaenllym). Park in the Past, SJ29 59, Jonathan Shanklin, 8th Jun 2021, in 'Carp Corner' - approx SJ298596.
- ‡147/5.2. **Arum italicum** (Italian Lords-and-Ladies) (Pidyn-y-gog Eidalaid). Rhuddlan, SJ02 79, Jonathan Shanklin, 9th Aug 2021.
- 148/1.1. **Spirodela polyrhiza** (Greater Duckweed) (Llinad Mawr). Bilberry Wood, SJ3170 6470, Jonathan Shanklin, 26th Oct 2021, newish pond in wood.
- 151/1.15. **Juncus bulbosus** (Bulbous Rush) (Brwynen Oddfog). Bilberry Wood, SJ31 64, Jonathan Shanklin, 26th Oct 2021.
- 152/16.07. **Carex spicata** (Spiked Sedge) (Hesgen Ysbigog Borffor). Park in the Past, SJ29 59, Jonathan Shanklin, 8th Jun 2021. Also at the same site in SJ30 59 on 10th Aug 2021.

- 152/16.15. **Carex remota** (Remote Sedge) (Hesgen Blodau Anghyfagos). Park in the Past, SJ29 59, Jonathan Shanklin, 8th Jun 2021; Hope, SJ32 59, Jonathan Shanklin, 18th Apr 2022.
- 152/16.46.c. **Carex oederi** (Small-fruited Yellow-sedge). Park in the Past, SJ301 590, Jonathan Shanklin, 8th Jun 2021, at edge of seasonal pond.
- 153/14.1. **Vulpia fasciculata** (Dune Fescue) (Peisgwellt y Twyni). Park in the Past, SJ3005 5896, Jonathan Shanklin, 8th Jun 2021, locally frequent over perhaps 100 m in this area.
- 153/14.2. **Vulpia bromoides** (Squirreltail Fescue) (Peisgwellt Cynffon Gwiwer). Park in the Past, SJ30 59, Jonathan Shanklin, 8th Jun 2021.
- 153/18.06. **Poa angustifolia** (Narrow-leaved Meadow-grass) (Gweunwelt Culddail). Park in the Past, SJ29 59, Jonathan Shanklin, 8th Jun 2021.
- 153/21.1.rig. **Catapodium rigidum subsp. rigidum**. Rhuddlan Castle, SJ02 77, Jonathan Shanklin, 9th Aug 2021; Mostyn, SJ14 81, Jonathan Shanklin, 5th Jun 2021; Park in the Past, SJ29 59, Jonathan Shanklin, 8th Jun 2021, also at the same site in SJ30 58; Higher Ferry, SJ37 65, Jonathan Shanklin, 4th Jun 2021.
- 153/24.2. **Glyceria fluitans** (Floating Sweet-grass) (Melyswellt Arnofiol). Hope, SJ31 59, Jonathan Shanklin, 6th Jun 2021.
- 153/35.1. **Aira caryophyllea** (Silver Hair-grass) (Brigwellt Arian). Mostyn, coast, SJ14 81, Jonathan Shanklin, 5th Jun 2021; Park in the Past, SJ29 59, Jonathan Shanklin, 10th Aug 2021.
- 153/35.2. **Aira praecox** (Early Hair-grass) (Brigwellt y Gwanwyn). Halkyn Common SSSI, SJ18 72, Jonathan Shanklin, 13th Jul 2021.
- 153/38.1. pic. **Phalaris arundinacea var. picta** (Gardener's Garters). Buckley, Lower Common SSSI, SJ2710 6524, Jonathan Shanklin, 23rd Oct 2021, pond margin.
- ‡153/39.2. **Agrostis gigantea** (Black Bent) (Maeswellt Mawr). Prestatyn, dunes, SJ04 82, Jonathan Shanklin, 9th Jul 2021.
- 153/39.8. **Agrostis vinealis** (Brown Bent) (Maeswellt-y-cŵn y Mynydd). Halkyn Common and Holywell SSSI, SJ20 70, Jonathan Shanklin, 5th Jun 2021.
- 153/50.4.c. **Bromus hordeaceus subsp. thominei** (Sand Soft-brome). Marian Ffrith, field, SJ07 78, Jonathan Shanklin, 9th Jul 2021; Prestatyn, dunes, SJ04 82, Jonathan Shanklin, 9th Jul 2021; Halkyn Common SSSI, SJ18 72, Jonathan Shanklin, 13th Jul 2021.
- ‡153/52.1. **Anisantha diandra** (Great Brome) (Pawrwellt Mawr). Rhewl-Mostyn, SJ1436 8075, Jonathan Shanklin, 5th Jun 2021, field margin.
- ‡153/53.1.© **Ceratochloa carinata** (California Brome) (Pawrwellt California). Afon Clwyd washes, SJ0164 7855, Jonathan Shanklin, 9th Aug 2021, field margin; Higher Ferry, SJ3702 6581, Jonathan Shanklin, 4th Jun 2021, var carinata.
- ‡153/60.1.© **Triticum aestivum** (Bread Wheat) (Gwenith). Park in the Past, SJ29 59, Jonathan Shanklin, 10th Aug 2021; Park in the Past, SJ30 59, Jonathan Shanklin, 10th Aug 2021.
- 158/24.16.vin. **Allium vineale var. vineale**. Rhuddlan, SJ02 78, Jonathan Shanklin, 9th Aug 2021.
- 162/14.1. **Anacamptis pyramidalis** (Pyramidal Orchid) (Tegeirian Bera). Waentochwaed, SJ18 71, Jonathan Shanklin, 13th Jul 2021.
- 162/16.1. **Gymnadenia conopsea** (Fragrant Orchid) (Tegeirian Pêr). Parc Linden SSSI, SJ18 71, Jonathan Shanklin, 13th Jul 2021

- c1-4-ten **Nitella tenuissima** (Dwarf Stonewort). Cors Bodeilio, SH50 77, Peter Jones, 2021.
- +009/1.1. **Pilularia globulifera** (Pillwort) (Pelenllys Gronynnog). Llwyn Eilian, SH4612 9323, Nigel Brown & Sally Ellis, 17th Aug 2021.
- +‡021/1.1. **Cupressus macrocarpa** (Monterey Cypress) (Cypreswydden Monterey). Cae Gwyn SSSI, SH34 91, Nigel Brown, 4th Jul 2021.
- *‡028/06.1.b. **Aconitum napellus subsp. vulgare**. Penrhosfeilw (RSPB)& Holy Island SSSI, SH2163 8031, Nigel Brown, 3rd Oct 2021.
- +‡047/3.1. **Fagopyrum esculentum** (Buckwheat) (Gwenith yr Hydd). Red Wharf Bay (Llanddona Beach), SH5705 8075, Nigel & Caroline Brown, 4th Aug 2021.
- +‡061/2.03. **Salix alba** (White Willow) (Helygen Wen). Llwyn Eilian, SH46 93, Nigel Brown & Sally Ellis, 17th Aug 2021.
- +061/2.10×11. **Salix ×reichardtii**. Parys Mountain (West), SH438 901, Ian Bonner & Nigel Brown, 20th Sep 2021.
- +062/12.5. **Rorippa sylvestris** (Creeping Yellow-cress) (Berwr Melyn Ymlusgol). Penhesgyn Gors (former tip), SH53 74, Richard Birch, 1st Jul 2021.
- +062/42.1.b. **Raphanus raphanistrum subsp. maritimus** (Sea Radish) (Rhuddygl Arfor). Alaw Estuary (part), SH30 81, Nigel Brown, 12th Sep 2021.
- +‡073/1.3. **Crassula helmsii** (New Zealand Pigmyweed) (Corchwyn Seland Newydd). Beddmanarch, SH275 805, Nigel Brown, 19th Dec 2021; (+) Llanfaes, SH6019 7753, David Thorpe, Feb 2022.
- *‡073/5.17. **Sedum dasyphyllum** (Thick-leaved Stonecrop) (Briweg Dewddail). Between Llanfairpwll and Menai Bridge, SH5440 7179, Hugh Knott, 4th Aug 2021.
- +‡074/03.1. **Bergenia crassifolia** (Elephant-ears) (Clustiau Eliffant). former Shell Terminal, Amlwch Port, SH4488 9330, Nigel Brown, Charles Aron & John Dyda, 24th Jul 2021.
- +‡075/03.1×3. **Spiraea ×pseudosalicifolia** (Confused Bridewort) (Ffug Erwain-dail-helyg). former Shell Terminal, Amlwch Port, SH4488 9330, Nigel Brown, Charles Aron & John Dyda, 24th Jul 2021.
- *‡075/12.1. **Potentilla indica** (Yellow-flowered Strawberry) (Llwyn Mefus Melyn). Between Llandegfan and Beaumaris, SH5817 7459, Gwen Vaughan, 18th Jun 2021, several plants on roadside. First noticed c.2018.
- +‡075/22.03. **Prunus cerasifera** (Cherry Plum) (Coeden Goeg-geirios). By pool, Breakwater CP, SH2273 8324, Nigel Brown, 28th Mar 2021, planted.
- ‡075/28.09×14. **Sorbus ×avonensis T.C.G. Rich (S. aria × S. porrigentiformis)**. Menai Bridge, SH5533 7179, Robbie Blackhall-Miles, 19th Oct 2021.
- +077/14.08. **Vicia tetrasperma** (Smooth Tare) (Ffacbysen Lefn). Penhesgyn Gors (former tip), SH53 74, Richard Birch, 1st Jul 2021.
- +‡077/19.19.a.© **Trifolium incarnatum subsp. incarnatum** (Crimson Clover) (Meillionen Waetgoch). Red Wharf Bay (Llanddona Beach), SH5705 8075, Nigel & Caroline Brown, 4th Aug 2021.
- +077/26.1×2. **Ulex ×breoganii (U. europaeus × U. gallii)**. Parys Mountain (West), SH43 90, Ian Bonner & Nigel Brown, 20th Sep 2021.

+‡080/1.man.© **Gunnera manicata** (Brazilian Giant-rhubarb) (Rheonllys Mawr Brasil). Beddmanarch-Cymyran SSSI, SH294 807, Nigel Brown, 12th Sep 2021.

*084/1.02×03. **Epilobium ×limosum**. Parys Mountain (West), SH43 90, Ian Bonner & Nigel Brown, 20th Sep 2021.

+‡084/4.1. **Oenothera glazioviana** (Large-flowered Evening-primrose) (Melyn-yr-hwyr Mawr). former Shell Terminal, Amlwch Port, SH4488 9330, Nigel Brown, Charles Aron & John Dyda, 24th Jul 2021.

+‡093/1.1. **Vitis vinifera** (Grape-vine) (Gwinwydden). Breakwater C.P., SH2358 8365, Nigel Brown, 10th Oct 2021; (*) former Shell Terminal, Amlwch Port, SH4490 9333, Nigel Brown, Charles Aron & John Dyda, 24th Jul 2021.

+†107/21.1. **Foeniculum vulgare** (Fennel) (Ffenigl). Breakwater C.P., SH2359 8363, Nigel Brown, 10th Oct 2021.

+108/3.2×3. **Centaureum ×intermedium**. former Octel & Shell Terminal, Amlwch Port, SH44 93, Ian Bonner, Nigel Brown, Charles Aron & John Dyda, 20th Sep 2021.

+108/3.3. **Centaureum littorale** (Seaside Centaury) (Y Ganrhi Goch Arfor). former Shell Terminal, Amlwch Port, SH4493 9375, Nigel Brown, Charles Aron & John Dyda, 24th Jul 2021.

+‡110/7.1.© **Solanum lycopersicum** (Tomato) (Tomato). Beddmanarch-Cymyran SSSI, SH294 807, Nigel Brown, 12th Sep 2021.

+‡115/1.1. **Phacelia tanacetifolia** (Phacelia) (Ffaselia). Red Wharf Bay (Llanddona Beach), SH5705 8075, Nigel & Caroline Brown, 4th Aug 2021.

+‡123/1.sus×vir.© **Forsythia ×intermedia** (Forsythia) (Clychau Aur). Roadside, Pentre Berw, SH4620 7305, Nigel Brown, 21st Mar 2021.

*125/2.10.min. **Orobanche minor var. minor**. Soldiers Point, SH2367 8370, Nigel Brown, 10th Oct 2021.

128/2.2. **Utricularia australis** (Bladderwort) (Chwysigenddail). Newborough Forest SSSI (part), SH4041 6514, Robbie Blackhall-Miles, Sep 2021.

+129/8.ped. **Pratia pedunculata**. Porth Newydd, SH46 93, Joanna Robertson, 7th Aug 2021.

+135/05.4. **Carduus nutans** (Musk Thistle) (Ysgallen Bendrom). former Shell Terminal, Amlwch Port, SH4488 9330, Nigel Brown, Charles Aron & John Dyda, 24th Jul 2021.

+†135/12.1. **Cichorium intybus** (Chicory) (Ysgello). former Shell Terminal, Amlwch Port, SH4480 9343, Nigel Brown, Charles Aron & John Dyda, 24th Jul 2021.

+135/28.01.5. **Hieracium vagum** (Gabrous-headed Hawkweed). Penrhosfeilw (RSPB)& Holy Island SSSI, SH2163 8030, Nigel Brown, 13th Aug 2021.

+‡135/41.4. **Aster novi-belgii** (Confused Michaelmas-daisy) (Blodyn-Mihangel Dyrys). Ynys Gybi, SH2163 8032, Nigel Brown, 13th Aug 2021.

+‡135/44.flo. **Conyza floribunda** (Many-flowered Fleabane). Breakwater C.P., SH2359 8363, Nigel Brown, 10th Oct 2021.

+135/62.12. **Senecio erucifolius** (Hoary Ragwort) (Creulys Lwyd). Cors Goch, SH4904 8086, Geoff. Radford, 24th Aug 2021.

+152/16.42. **Carex punctata** (Dotted Sedge) (Hesgen Fannog). former Octel & Shell Terminal, Amlwch Port, SH44 93, Ian Bonner, Nigel Brown, Charles Aron & John Dyda, 20th Sep 2021.

- +153/18.12. **Poa nemoralis** (Wood Meadow-grass) (Gweunwellt y Coed). Cae Gwyn SSSI, SH34 91, Nigel Brown, 4th Jul 2021.
- +153/41.1. **Ammophila arenaria** (Marram) (Môr-hesgen). former Shell Terminal, Amlwch Port, SH4489 9373, Nigel Brown, Charles Aron & John Dyda, 24th Jul 2021. See image 4, page 2.
- +‡153/46.2. **Polygonum viridis** (Water Bent) (Barfwellt y Dŵr). Ucheldre Centre, Holyhead, SH2428 8240, Tom Knight, 17th Jun 2021.
- +‡153/62.1. **Cortaderia selloana** (Pampas-grass) (Peithwellt). Llanfihangel yn Nhowyn, SH3226 7756, Jim Clark, Jun 2021.
- *‡153/71.san. **Digitaria sanguinalis** (Hairy Finger-grass) (Byswellt Blewog). Tyddyn Polion (A55), SH3784 7577, Richard Birch, 12th Aug 2021.
- *‡158/36.1. **Alstroemeria aurea** (Peruvian Lily) (Lili Periw). Mynydd Mechell, SH3545 8913, Nigel Brown, 22nd Jun 2021.
- +162/03.4. **Epipactis helleborine** (Broad-leaved Helleborine) (Y Galdrist Lydanddail). Newborough Forest SSSI, SH3887 6513, Robbie Blackhall-Miles, Jul 2021.
- +162/18.1×3. **Dactylorhiza ×kerneriorum (D. fuchsii × D. incarnata)**. Newborough Forest SSSI, SH3984 6512, Nigel Brown, 24th Jun 2021.
- +162/18.2×3. **Dactylorhiza ×carnea**. Cors Bodeilio SSSI, SH5028 7757, Nigel Brown, 5th Jul 2021.

Images on page 59

From the article on page 10 about *Gagea lutea* (Yellow Star-of-Bethlehem, Seren-Fethlehem felen) in Denbighshire, v.c.50. © Delyth Williams:

Image 6: The fragile pale-yellow flower of *G. lutea* appearing in March.

Image 7: A photo taken of the site near Graianrhyd in 2021, where none of the *G. lutea* plants flowered.

Image 8: A closer view of a *G. lutea* leaf without flowers at the Graianrhyd site in 2021.

Image 9: *Juncus compressus* discovered over an extensive area in top saltmarsh zone by James Darke at Morfa Uchaf, north of Ferryside, Carms, on 30th June 2021; © Kath Pryce, 4th August 2021. See Welsh Plant Records 2021.

Images on the back cover of this issue

Image 10: Looking for Spurge on Ynyslas Dunes, Ceredigion. © Chloe Griffiths. See article on page 13.

Image 11 and 12: Flowering and fruiting spikes of *Dactylorhiza purpurella* (Northern Marsh-orchid), a new record for SN52. © Theresa Greenaway. See article on page 8.





10



11



12