

Flora News

Newsletter of the Hampshire & Isle of Wight Wildlife Trust's
Flora Group

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Dear Flora Group member

2017 promises to be a busy year for the Hampshire Flora Group. Martin Rand kicks off with a plant recording workshop in February to update anyone involved in Atlas 2020. He has also organised a two-day joint Flora Group/BSBI Atlas 2020 recording session to be held on Hayling Island in May and September, a Dandelion meeting in the New Forest area in May and an aquatic plant ID workshop with Richard Lansdown in July. In North Hampshire Tony Mundell will lead visits to Blackbushe Airfield, the Bourley/Caesar's Camp area and Tidgrove Warren Farm. Other events include a carnivorous plants meeting in the New Forest to be led by Tim Bailey, a co-author of the recently published book. Our Annual General Meeting (AGM) this year will be held on Saturday 3 June in the New Forest when we will be visiting Decoy Pond Farm.

In a new, hopefully permanent section of this newsletter, Martin Rand has contributed two Book Reviews, including one on the carnivorous plants book mentioned above. This edition of *Flora News* also includes notes and noteworthy plant records for the two vice-counties for 2015-16.

As usual we are always keen to receive your suggestions for Flora Group events or activities. Please raise them at the AGM or pass your ideas to any of the Committee members – Sarah Ball (Chairman), Catherine Chatters, Clive Chatters, Ginnie Copsey, Andy Cross, Gareth Knass, Tony Mundell, John Norton, Martin Rand or Neil Sanderson.

We are keen for more people to provide contributions to *Flora News* on any relevant botanical topics. If you have enjoyed any of the Flora Group events and would like to write a report we would be very pleased to receive it. Please send your articles, notes or reports to Catherine Chatters (Flora Group Secretary) at Catherine.Chatters@hiwwt.org.uk or to her home address which is given at the end of this newsletter.

Catherine Chatters
Flora Group Secretary

John Norton
Editor

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Forthcoming Events

There is normally no need to book a place on Hampshire Flora Group events beforehand, unless the text specifically requests it. A contact telephone number is only given in case you wish to know more about the event. The leader can be expected to turn up whatever the weather (although it may then be mutually agreed to cancel the event)! Bring a packed lunch and suitable footwear to all meetings.

Plant Recording Workshop, Testwood Lakes Centre, Totton

Saturday 18 February 2017, 10am–3.30pm

Leader: Martin Rand

This meeting will be of interest to anyone who is currently involved in recording for Atlas 2020, anyone who would like to become involved, and anyone wanting to know how to log their records using web-based or mobile-based recording software.

The morning session (10am–12.30pm) will cover:

- Atlas 2020 in Hampshire: progress so far, what remains to be done in the next 3 years, some new approaches.
- Getting information from the Hants Plants web site for Atlas 2020: review of old and new facilities.
- A quick guided tour of the BSBI's national Distribution Database: mapping, searches, statistics, and help in the validation process.

The afternoon session (1pm–3.30pm) will cover:

- Living Record: a quick introduction (or recap) of the essential data entry facilities.
- How to use Living Record most efficiently for entering Atlas 2020 data in Hampshire.
- Living Record 'best practice' for delivering high quality information to the vice-county recorders.
- Entering data using iRecord: the basics.
- Pros and cons of Living Record and iRecord.
- An introduction to the iRecord Mobile App.

Refreshments will be provided, and a light buffet lunch for those people attending both sessions: what we want in return is your willingness to get (or stay) involved in Hampshire plant recording!

Booking required. To book please contact Martin Rand by e-mail or post (see back page for details). Tel: 07531 461442 for questions and follow-up. Please make clear when you book whether you wish to attend for the whole day, the morning session only, or the afternoon session only. If you are taking lunch, please let us know and state any special dietary requirements.

Sunday 12 March 2017, 10.30am

Lichens in Baker's Copse, Roydon Woods Nature Reserve near Brockenhurst, Joint meeting with the Wessex Lichen Group

Leader: Neil Sanderson

A joint meeting with the Wessex Lichen Group, to look at the rich lichen flora of this part of Hampshire & Isle of Wight Wildlife Trust's Roydon Woods Nature Reserve. The site is an unusual one, originally ordinary farmland but incorporated in to a landscape park in the 18th century and now rich in veteran tree specialist lichens. We will be able to see lots of common lichen species too. All are welcome, but ideally bring a hand lens.

We will meet at 10.30 at the pull-in on the side of the road to Brockenhurst just off the A337 opposite the Filly Inn at SU 302 002 and walk in from there.

Contact: Neil Sanderson, e-mail: neilsand@dircon.co.uk, tel. 023 8029 3671.

Sunday 9 April 2017, 10am–3pm

Spring flora, Swaythling, Southampton, joint meeting with Southampton Natural History Society

Leaders: John Norton and Phil Budd

A return visit to Southampton to kick off the Flora Group 2017 calendar. Like last year's meeting this will be jointly with the Southampton Natural History Society. We will meet at Riverside Park in the north of the city where we will be able to take in a variety of both suburban and semi-natural habitats, including parts of the Monks Brook and a look at South Stoneham Cemetery. We hope to see plenty of species, including winter annuals which should be well into flower by this time and the naturalised alien Purple Toothwort *Lathraea clandestina*.

Meet at Riverside Park car park, SU 440 151. Please note the 10am start time. From J5 of the M27 take the A335 southwards on Stoneham Way and go straight across the first main traffic-lighted junction and after 240m keep right at the next one (do not go on to Thomas Lewis Way). After a further 200m take the left fork onto High Road, continue for 300m and turn left onto Woodmill Lane. The car park is on the left after you go over the bridge. We may walk a few miles so bring decent footwear and lunch.

Contact: John Norton, john1@jnecology.com.

Atlas 2020 Recording Day, South Hayling (jointly with BSBI nationally)

Saturday 13 May 2017, 10am–4.30pm

Leader: Martin Rand



Rather surprisingly given its botanical attractions, the southern strip of Hayling Island, grid reference SZ79 (which excludes the western end around Sinah Common) is still a bit deficient in recent plant records compared with most other parts of the vice-county. This is the first of two field meetings intended to rectify this for Atlas 2020, the BSBI's national distribution mapping project for vascular plants.

Amidst the low-key seaside suburban sprawl of Hayling's south coast, there are some striking survivals of coastal heath, dune, shingle and saltmarsh. Even the suburban streets and waste ground have their interest. We shall split into small teams to cover the three tetrads thoroughly. Many of the recently unrecorded species are the more common things, but in the process of

checking them off you will see (or in some cases, refind) an interesting blend of native and alien species. In the early season, these might include the following: Bristle Bent *Agrostis curtisii*, Hairy Garlic *Allium subhirsutum* (or maybe not! Come to find out), Green-winged Orchid *Anacamptis morio*, Ripgut Brome *Anisantha rigida*, Bur Chervil *Anthriscus caucalis*, Shrubby Orache *Atriplex halimus*, Least Soft-brome *Bromus hordeaceus* subsp. *feronii*, Sand Soft-brome *Bromus hordeaceus* subsp. *thominei*, Divided Sedge *Carex divisa*, Dotted Sedge *Carex punctata*, Virgin's-bower *Clematis flammula*, Sea-kale *Crambe maritima*, Mossy Stonecrop *Crassula tillaea*, Musk Stork's-bill *Erodium moschatum*, Little-robin *Geranium purpureum*, Smooth Cat's-ear *Hypochaeris glabra*, Hare's-tail *Lagurus ovatus*, Toothed Medick *Medicago polymorpha*, Upright Chickweed *Moenchia erecta*, Hairy Childing-pink *Petrorhagia dubia*, Sand Cat's-tail *Phleum arenarium*, Bulbous Meadow-grass *Poa bulbosa*, Early Meadow-grass *Poa infirma*, Stiff Saltmarsh-grass *Puccinellia rupestris*, Allseed *Radiola linoides*, Heath Pearlwort *Sagina subulata*, Dune Dandelion *Taraxacum dunense*, Pink-stalked Dandelion *Taraxacum pallescens*, Twisted-lobed Dandelion *Taraxacum tortilobum*, Shepherd's Cress *Teesdalia nudicaulis*, Bird's-foot Clover *Trifolium ornithopodioides*, Rough Clover *Trifolium scabrum*, Subterranean Clover *Trifolium subterraneum*, Suffocated Clover *Trifolium suffocatum*, Spring Starflower *Tristagma uniflorum*, Spring Vetch *Vicia lathyroides*, Heath Dog-violet *Viola canina*, Pale Dog-violet *Viola lactea*, Bearded Fescue *Vulpia ciliata* and Dune Fescue *Vulpia fasciculata*.

Booking required. To book please contact Martin Rand by e-mail or post (see back page for details). Full details of the day's arrangements will be provided after booking.

Dandelion Field Meeting, South Hampshire Saturday 20 May 2017, 10am–5pm Leaders: Tim Rich and Martin Rand

This will be a rather less high-powered meeting than the BSBI's annual *Taraxacum* workshop held in Hampshire a couple of years ago, but it will provide participants with a chance to make use of the BSBI's excellent photographic ID sheets to recognise the main Sections and to go farther. Don't expect to get definitive answers for all specimens on the day, but where appropriate we shall make collections to send to the national referee and keep people informed after the event.

As we are visiting quite late in the Dandelion year, the focus will probably be on species of damp ground, but we shall organise our itinerary to suit the season. We expect to travel by car to several spots in south-west Hampshire, but will start at Balmer Lawn, Brockenhurst, where we can hope to see some of the rare species of the Palustria section and their 'confusables' such as *Taraxacum nordstedtii*.

Booking is necessary so that car transport between sites can be planned. To book please contact Martin Rand by e-mail or post (see back page for details). Please state how you intend to travel to Brockenhurst, and whether

you can accommodate extra passengers during the day if you are coming by car. There will be a charge of £3 as a contribution towards expenses. The BSBI's *Taraxacum* ID sheets are freely downloadable from the BSBI web site at <http://bsbi.org/identification>; however, if you want a printed copy for the day and don't have the means of printing it yourself, please let Martin know when booking. There will be an additional charge of £2.50 for this.

Saturday 3 June 2017, 10am–3pm Visit to Decoy Pond Farm, in the New Forest, plus AGM Leader: Clive Chatters

The owner of Decoy Pond Farm has kindly invited Flora Group members to study her species-rich fields which are part of the New Forest Site of Special Scientific Interest. We will spend the morning exploring the fields which are adjacent to the Beaulieu River and we will hold our brief AGM after our picnic lunch. During the afternoon there will be an opportunity to visit other habitats within the New Forest SSSI which are managed by the Forestry Commission, on Crown Land in the vicinity of Decoy Pond Farm.

Please note the 10am start time. Meet at Decoy Pond Farm, SU 35739 07205 (postcode SO42 7YQ). To find Decoy Pond Farm, head towards Beaulieu Road Station and take the track heading north-east from the B3056, to the east of the pony sales yard. Drive along the track for approximately one kilometre and the farm is at the end. Bring a packed lunch and plenty to drink.

Contact: Catherine Chatters (see back page for details). Catherine's mobile number is 07770 923315. No need to book.

Sunday 18 June 2017, 10.30am–4pm Visit to Blackbushe Airfield Leader: Tony Mundell & Elliott Fairs

We will visit the north part of the airfield which is no longer used by aircraft and has open public access. This is basically heathland but parts have become very overgrown with scrub (e.g. Gorse) and secondary woodland. Hampshire & Isle of Wight Wildlife Trust aspire to take over management of the area for the landowner (Blackbushe Airport Ltd.) to prevent further deterioration of the heathland habitats and there is a related need to improve the dataset of species present, focusing on birds, reptiles, key insects (e.g. Silver-studded Blue and Grayling butterflies) as well as key botanical species. One target for us will be to re-find as many plants of Moonwort *Botrychium lunaria* as we can, but we will compile a full list of all plants seen.

Meet in the Bush Café car park, Terminal Buildings, Blackbushe Airport GU17 9LQ, SU 8085 5880, but please park on the adjacent grass rather than filling up the car parking bays. Bring a packed lunch. We will aim to finish by 4pm.

Contact: Tony Mundell (see back page for details). No need to book.

Aquatic Plant ID Field Training Day, South-west Hampshire

Saturday 8 July 2017, 10am–5pm

Leaders: Richard Lansdown and Martin Rand

Richard is an expert on aquatic plants, with an outstanding field guide on their identification and the BSBI's Handbook on Water-starworts (*Callitriche*) of Europe among his writings, and he has an international role in the red listing and conservation of water plants. Unfortunately, this role means that we can't be absolutely sure of his appearance at this meeting, as he may have to be abroad at the time. However, the meeting will go ahead on a rather less exalted level, should he not be able to come.

We shall begin the day near Holmsley looking at one of the most important New Forest streams, the Avon Water. From there we shall travel on by car visiting sites in the valley of the Hampshire Avon and the Dorset Stour, giving us a chance to see plants of more nutrient-rich habitats and several Pondweed species.

Booking is necessary so that car transport can be planned between sites. To book please contact Martin Rand by e-mail or post (see back page for details). Please state how you intend to travel to Holmsley, and whether you can accommodate extra passengers during the day if you are coming by car. There will be a charge of £3 as a contribution towards expenses. Full details of the day's arrangements will be provided after booking.

Wednesday 12 July 2017, 10.30am–3.30pm

Introduction to the NVC, Portsdown Hill

Leader: John Norton

This will be an informal field-based training event for anyone interested in learning a bit more about the National Vegetation Classification. We will be exploring some of the principles behind the NVC and the methodology involved, rather than learning to recognise particular NVC types *per se*, but part of the day will be spent taking a general walk around to look at different examples of dry neutral and calcareous grassland. We will see how NVC types can be recognised in the field (e.g. by the presence of constant and preferential species) and do some practical sampling using quadrats. Some guidance notes will be provided and a write-up with analysis will be circulated after the event. See the article in *Flora News* 49 (September 2015) for a general introduction and background to the NVC.

Booking only and limited to about 12 people – please contact John Norton john1@jnecology.com if you wish to attend. The meeting point will be confirmed nearer the time.

Sunday 23 July 2017, 10.30am–4pm

Visit to Long Bottom, Bourley and Caesar's Camp

Leaders: Tony Mundell & Elliott Fairs

The Hampshire & Isle of Wight Wildlife Trust who manage the land for MoD have recently made a large number of shallow scrapes to encourage the scarcer

plants. Most of the scrapes are still at an early stage of colonization from the disturbed seed bank but we will visit a selection of the scrapes to see what we can find. A single plant of Ivy-leaved Bellflower *Wahlenbergia hederacea* (which is close to extinction in VC12) was found on one scrape in October 2015 – hopefully it will be in flower in July. We will also visit other heathland plants in this area such as Round-leaved Sundew *Drosera rotundifolia*, Marsh Clubmoss *Lycopodiella inundata*, Sheep's-bit *Jasione montana*, Bristle Bent *Agrostis curtisii* (uncommon in VC12 but not so in VC11), Great Wood-rush *Luzula sylvatica* and a *Hieracium* that has puzzled even the experts (earlier recorded as *Hieracium diaphanum* agg., but then as *H. argillaceum* and even more recently as *H. mammidens* – see the Hants Rare Plant Register). Whatever it is, it is quite attractive with sprays of typical yellow Hawkweed flowers and purple on the leaf underside.

While we are there Neil Sanderson will take the opportunity to also record lichens in the area.

Meet in the car park close to the Wellington Monument near Aldershot in Claycart Road SU 8533 5113. Do not approach from the A323 at SU 8521 5238 or the A325 at SU 8545 5102 as those routes are closed. Instead, either leave the A323 at the roundabout at SU 8535 5088 onto Wellesley Road, or travel on Bourley Road past Tweseldown Racecourse before turning left at the junction at SU 8487 5108. Bring a packed lunch and note that we will be traversing some very rough ground, often on very steep slopes. We will aim to finish by 4pm.

Contact: Tony Mundell (see back page for details). No need to book.

Sunday 13 August 2016, 10am–3pm

Carnivorous plants in the New Forest

Leader: Tim Bailey

We are delighted that Tim Bailey co-author of the recently-published book titled '*Carnivorous Plants of Britain and Ireland*' (a review of which is included in this edition of *Flora News*) has agreed to lead a Flora Group event focusing on carnivorous plants of the New Forest.

We will start the day exploring the Shatterford area where we are likely to find Pale Butterwort *Pinguicula lusitanica*, three species of Bladderwort *Utricularia* and two species of Sundew *Drosera*. We will then move on to Wootton Bridge from where we aim to see a third species of *Drosera*.

Meet in the Forestry Commission's Shatterford car park at grid reference SU 34815 06336 (nearest postcode SO42 7YQ) on the south side of the B3056, to the west of the railway line near Beaulieu Road Station. Please note the 10am start time. Bring a packed lunch and plenty to drink.

Contact: Catherine Chatters (see back page for details). Catherine's mobile number is 07770 923315. No need to book.

Sunday 20 August 2017, 10.30am–3.30pm

Visit to Tidgrove Warren Farm

Leader: Tony Mundell

Meet at Tidgrove Warren Farm SU 5221 5443, RG25 3EN at 10.30am. This is at the invitation of the landowner, Raleigh Place, who farms organically and manages areas of his farm to encourage breeding Stone Curlews and other birds. The arable flora is rich with species like Henbit Dead-nettle *Lamium amplexicaule*, Dwarf Spurge *Euphorbia exigua*, Small Toadflax *Chaenorhinum minus*, Round-leaved Fluellen *Kickxia spuria* and a few Venus's-looking-glass *Legousia hybrida* and Dense-flowered Fumitory *Fumaria densiflora*.

Other areas are uncultivated and have many Pyramidal Orchids *Anacamptis pyramidalis*. However, the visit is timed late in summer to be when the Red Hemp-nettle *Galeopsis angustifolia* should be in full flower. Sarah Ball, Sarah White and Tony Mundell did a botanical survey of some parts of this farm in 2016, but we will see if we can add some extra species.

One plant that needs checking is possible plants of Onion Couch *Arrhenatherum elatius* var. *bulbosum* which has the basal stem internodes swollen to look like a string of small corms. We recorded it but I was forgetting the article that Martin Rand published in BSBI News No.131, January 2016, pointing out that there are intermediate plants with smaller swellings that may not fall within var. *bulbosum*. Martin noted that in *Flora Gallica* (where *bulbosum* and *elatius* are treated as a subspecies) there is quite a narrow circumscription of subsp. *bulbosum* and intermediate plants are treated as hybrids between the two subspecies.

Bring a packed lunch, though Raleigh says that tea and coffee will be provided in the lakeside out-building (this has a toilet). We will aim to finish by 3.30pm.

Contact: Tony Mundell (see back page for details). No need to book.

Atlas 2020 Recording Day, South Hayling (jointly with BSBI nationally)
Saturday 9 Sept 2017, 10am–4.30pm
Leader: Martin Rand



Rather surprisingly given its botanical attractions, the southern strip of Hayling Island, grid reference SZ79 (which excludes the western end around Sinah Common) is still a bit deficient in recent plant records compared with most other parts of the vice-county. This is the second of two field meetings intended to rectify this for Atlas 2020, the BSBI's national distribution mapping project for vascular plants.

Amidst the low-key seaside suburban sprawl of Hayling's south coast, there are some striking survivals of coastal heath, dune, shingle and saltmarsh. Even the suburban streets and waste ground have their interest. We shall split into small teams to cover the three tetrads thoroughly. Many of the recently unrecorded species are the more common things, but in the process of checking them off you can expect to see (or in some cases, refind)

an interesting blend of native and alien species: in this latter end of the season, these might include Bristle Bent *Agrostis curtisii*, Babington's Orache *Atriplex glabriuscula*, Shrubby Orache *Atriplex halimus*, Frosted Orache *Atriplex laciniata*, Slender Hare's-ear *Bupleurum tenuissimum*, Divided Sedge *Carex divisa*, Dotted Sedge *Carex punctata*, Virgin's-bower *Clematis flammula*, Sea-kale *Crambe maritima*, Mossy Stonecrop *Crassula tillaea*, Sea Heath *Frankenia laevis*, Sea Barley *Hordeum marinum*, Golden-samphire *Inula crithmoides*, Sharp Rush *Juncus acutus*, Hare's-tail *Lagurus ovatus*, Sand Cat's-tail *Phleum arenarium*, Sea Knotgrass *Polygonum maritimum*, Ray's Knotgrass *Polygonum oxyspermum*, Borrer's Saltmarsh-grass *Puccinellia fasciculata*, Stiff Saltmarsh-grass *Puccinellia rupestris*, Allseed *Radiola linoides*, Spiral Tasselweed *Ruppia cirrhosa*, Yellow Glasswort *Salicornia fragilis*, One-flowered Glasswort *Salicornia pusilla*, Cock's-eggs *Salpichroa oranifolia*, Perennial Glasswort *Sarcocornia perennis*, Autumn Lady's-tresses *Spiranthes spiralis*, Twiggy Mullein *Verbascum virgatum*.

Booking is required and should be made to Martin Rand by e-mail or post (see back page for details). Martin will then provide full details before the meeting.

Saltmarsh Plant Identification, Gutner Nature Reserve, Hayling Island
Saturday 16 September 2017, 11am–5pm
Leader: Martin Rand

This is an opportunity to see a good range of saltmarsh communities and get to grips with their plants, as Gutner has habitat running from the lower mudflats up to the highest levels of marsh in an attractive quiet setting on the edge of Chichester Harbour.

Booking is required and should be made to Martin Rand by e-mail or post (see back page for details). Expect to collaborate in some car-sharing.

Cotoneaster Identification, Portsdown Hill
Sunday 24 September 2017, 10.30–4pm
Leader: John Norton

By popular demand a return visit to this Cotoneaster hot-spot close on the chalk ridge north of Portsmouth Harbour. We should see about 10 of the commonest species which escape from gardens and tend to do well (sometimes too well) on chalk grassland. This will be a good opportunity to compare foliage characters and berries. The site is excellently managed by Portsmouth City Council and there may also be a few nice chalk grassland plants still in flower, such as Chalk Eyebright *Euphrasia pseudokerneri*.

Meet at the car park on the west side of Fort Widley on Mill Lane, off Portsdown Hill Road (there is also a large car park on the east side), SU 654 065, postcode PO6 3LH). Stout footwear recommended. Due to steep slopes not recommended for people with weak knees!

Contact: John Norton, e-mail: john1@jnecology.com.

Reports of Recent Events

Talk by Stewart McPherson on 9 January 2016 'Carnivorous Plants in Britain and Beyond'

A report by Andy Cross

Martin Rand invited Stewart McPherson to give a talk on carnivorous plants of the world during which Stewart introduced us to the range and diversity of this extraordinary group of plants across the world, stopping off at some favoured locations to look in more detail.

Stewart's engagement with carnivorous plants started from his explorations at a young age in the heathlands of Dorset and it is these beginnings that led him to become a world expert on carnivorous plants. We are fortunate that, despite losses of habitat, we can still visit heathlands in our area to see the carnivorous plants that started Stewart's journey.

The first part of the talk was an introduction to the main groups of carnivorous plants, which occur throughout the world with Antarctica the only continent they are absent. We were shown some superb photographs illustrating the various genera in the talk. To give an idea of the numbers of taxa involved in carnivory, I have turned to Wikipedia for a summary:

'True carnivory is thought to have evolved independently nine times in five different orders of flowering plants and is represented by more than a dozen genera. This classification includes at least 583 species that attract, trap and kill prey, absorbing the resulting available nutrients.'

Some challenge to cover this level of diversity.

Of interest to us all was Stewart's look at the UK's carnivorous plants. The UK has 10 species in three genera of two families – the Lentibulariaceae and Droseraceae. We can see all three genera and most species in Hampshire and from them can get a connection with the wider, global range of the groups.

Whilst all three genera occur throughout Europe, there is one there that does not occur here in Britain: *Aldrovanda vesiculosa* the Waterwheel, which is a very rare endangered plant restricted to a few places in Europe.

Europe, as we saw in Stewart's talk, is relatively poor in carnivorous plants with the centres of diversity elsewhere in the world. The genus *Drosera* has some 200 species of which many occur in its centre of diversity, which is Australia, though whether it evolved there is another question.

The majority of the carnivorous species and genera are found in the tropics/sub-tropics. Two areas of the tropics that Stewart spent some time with us on were the Pitcher Plant habitats on the islands in Indonesia and the Philippines and the table top mountains – the Tepuy – in the Orinoco region of north eastern South America. The Pitcher Plant world was one of amazing diversity

of extraordinary, striking, large pitchers allied with the size of mammals consumed. The table top mountains, sandstones that are very nutrient poor, was a world where a diverse assemblage of smaller, terrestrial pitchers lived in a very sparse environment very different from the islands of south east Asia. What connects them, though, was their diversity and evolution driven by isolation and island biogeography.

We are grateful to Stewart and Martin for arranging and delivering a wonderful talk. I recommend highly a visit to Stewart's website <http://www.redfernnaturalhistory.com>. There is so much more information there on carnivorous plants and natural history with even the option to join an expedition to some of the places we were introduced to in the talk.



A lower pitcher of *Nepenthes attenboroughii* demonstrating the characteristic campanulate shape and upright lid of this species (photo by Alastair Robinson, courtesy Wikimedia Commons <https://commons.wikimedia.org/w/index.php?curid=5906665>)

Cancelled visit to Longmoor Airstrip on Sunday 31 July 2016

A report by Tony Mundell

This meeting had to be cancelled as the car park at Woolmer Pond was closed while part of a new long-distance footpath called the Shipwright's Way was being constructed. Luckily Hampshire & Isle of Wight Wildlife Trust managed to e-mail HFG members to let them know, but Steve Povey and I decided to be there just in case one or two HFG members were not aware of the cancellation. We found an Adder basking in the car park!

Survey of Hook Common on Sunday 14 August 2016

A report by Tony Mundell

Six people attended this event. The plan was to make a baseline survey of Hook Common so that in the future comparisons can be made to assess the effects of grazing. Complete lists of all the plants seen were made in three separate areas, and for each species an assessment of abundance was made using the DAFOR scale. We started near the SE corner in woodland beside the boundary stream and found several ferns including Hard Shield-fern *Polystichum aculeatum*, Scaly Male-fern *Dryopteris affinis* and Hard-fern *Blechnum spicant*, before reaching an open area where the Hampshire & Isle of Wight Wildlife Trust have cleared much of the invading secondary woodland.

Unfortunately, most of the open areas are now dominated by elderly Purple Moor-grass *Molinia caerulea*, which makes for difficult walking. Amongst the less common plants that we listed were Lesser Skullcap *Scutellaria minor*, Dwarf Willow *Salix repens*, Dwarf Gorse *Ulex minor*, Velvet Bent *Agrostis canina* and Fine-leaved Sheep's-fescue *Festuca filiformis*. A damp marshy area further west gave us single plants of both Trailing St John's-wort *Hypericum humifusum* and Bristle Club-rush *Isolepis setacea*.

After crossing to the north side of the A287 we repeated most of the records from the south part but added Brown Bent *Agrostis vinealis*, and in a small pond found Marsh St John's-wort *Hypericum elodes*, Marsh Pennywort *Hydrocotyle vulgaris* and Bog Pondweed *Potamogeton polygonifolius*. In the third area surveyed we eventually re-found several plants of Common Cow-wheat *Melampyrum pratense* where previously known close to the electricity pylons. Back in the 1970s Marsh Gentian used to grow near here and between the pylons and the road. In those days I remember being able to see its flowers from the A287 layby. Sadly, that area has since degraded from open heathland and become secondary woodland.

Apart from the plant records we were also able to list for the Trust various species of butterflies, dragonflies, grasshoppers and reptiles, etc. These included a Silver-washed Fritillary, the relatively scarce Ruddy Darter Dragonfly (including a mating pair), a Roesel's Bush Cricket, several Slow Worms and a Hornet's nest.

Marsh Gentian count at Bartley Heath on Sunday 28 August 2016

A report by Peter Vaughan

There was a good turn-out of 12 people for the count. The number of Marsh Gentian plants found was 324, well down on last year's 931, but the distribution of the plants across the site was similar, so hopefully the low number was just the effect of the weather this year and within the expected variation in the percentage of the population which flowers in any one season, rather than

an indication of a serious decline. Thank you to everyone who helped with the survey. See photo, p.34.

Chenopodium and Atriplex Workshop, at Testwood Lakes Centre, Totton, Sunday 11 September 2016, led by Martin Rand

A report by Jill Oakley

The education room at the Trust's Testwood Lakes Reserve was the venue for this popular workshop. During a brief introduction, Martin explained that the former families of Amaranthaceae and Chenopodiaceae are now combined as Amaranthaceae in the 3rd edition of the *New Flora of the British Isles* by C. Stace. He outlined the main characteristics of the family and details of features to look for when identifying specimens of *Amaranthus* (Pigweeds), *Chenopodium* (Goosefoots) and *Atriplex* (Oraches). Martin had supplied each of us with copies of comprehensive notes and keys for the Amaranthaceae family and we were soon using these to identify the very many fresh specimens that he had provided. The morning and first part of the afternoon were hands-on practical sessions and with Martin's guidance each of us was able to identify the plant specimens to genus and then to species level. The images that he projected from the camera microscope were particularly helpful as we could clearly see the more challenging plant characters. The afternoon concluded with an interesting exploration of the Testwood Lakes Reserve. Thank you, Martin for a very friendly, valuable and successful day.

Flora Group / BSBI Exhibition Meeting at Testwood Lakes Centre on Saturday 10 December 2016

A report by Catherine Chatters

Over thirty people met at Testwood Lakes Education Centre for the Exhibition meeting in December. This annual winter social get-together is an excellent opportunity to catch up with fellow Flora Group members and look ahead to botanical recording during the following year.

In the classroom we were able to examine pressed specimens, including Clive Chatters' display of Cord-grasses of The Solent and Martin Rand's collection of roses, whilst Tony Mundell had set up a laptop to display his excellent photographs of roses.

A number of people had brought along specimens or photographs of plants for identification; Dawn Nelson was pleased that Eric Clement and Martin were able to identify an Aster found in a road verge between Petersfield and South Harting as the Common Michaelmas-daisy *Aster x salignus*, looking uncharacteristically colourful. Tony's photograph of a mystery plant he'd found growing to the west of Soldridge generated a lot of discussion but was probably Jerusalem Artichoke. Some of Eric's unwanted duplicate herbarium specimens were available for people to take away.

Tony had brought along a large number of pictures of Dandelions photographed during the Dandelion Workshop in South Hampshire during April 2015, together with another set of photos from a workshop held in Somerset in April 2016; they had all been named by Professor John Richards, the BSBI *Taraxacum* referee, and will be a very useful resource to aid identification.

Books by Flora Group members were on sale, including Felicity Woodhead's *Flora of the Christchurch Area* and *Flowers of the Forest* by Clive Chatters; Martin had brought along copies of the recently-published book on carnivorous plants by Tim Bailey and Stewart McPherson which is reviewed on p.15 of this newsletter.

Roger Veall had donated a selection of botanical books from his library which people were pleased to purchase, the proceeds being given to The Woodland Trust and HIWWT.

We were able to browse copies of recent publications brought along by Martin and Eric, including a number of books and topical reports and newsletters such as the Surrey Botanical Society newsletter, the annual report of the Southampton Natural History Society and the Isle of Wight Natural History and Archaeological Society's Bulletin.

As usual, a highlight of the day was Rosemary Webb's and Nigel Johnson's superb display of photographs including the elusive Lesser Twayblade *Listera cordata*, an unusual Common Twayblade *L. ovata* with three leaves and a branched stem, and some amazing close-up images of orchid flowers.

After a tasty buffet lunch we convened upstairs to view photographs presented by Clive, Martin and John Norton.

Many of Clive's photographs were taken during his travels during 2016 in Scotland and Wales whilst researching his forthcoming book on saltmarshes, which is due to be published by Bloomsbury in the 'British Wildlife Collection' series in July.

John's selection of photographs featured species recorded at Browdown, Gosport, such as Shepherd's Cress *Teesdalia nudicaulis*, Upright Chickweed *Moenchia erecta*, Nottingham Catchfly *Silene nutans* and a number of clovers including Subterranean Clover *Trifolium subterranean* and Starry Clover *T. stellatum*. I was interested to learn that the Nottingham Catchfly is pollinated by moths and, as its petals open at night, John had to photograph it early in the morning. John encouraged us to look out for Mediterranean Hair-grass *Rostraria cristata* which has been introduced as a component of bird seed and Hairy Finger-grass *Digitaria sanguinalis* which is appearing in pavements.

Martin's choice of photographs inspired us to record plants at all times of the year and in all sorts of places. He reminded us that it is never too early in the year to start botanising and encouraged us to search churchyards and the verges of lanes for plants such as crocuses and daffodils and to keep our eyes open for Spurge Laurel

Daphne laureola as it is likely to be discovered at 'new' locations in the east of the county.

We realised that interesting plants can be found in rather unattractive locations when Martin referred to the 'most squalid meeting' ever held by the Flora Group in the vicinity of the railway at Freemantle and the road verge of the A35!

Martin reminded us that it is always worth botanising close to home and, as an example, cited Annual Knawel *Scleranthus annuus*, a Red List species which he found at his local recreation ground. The site has a chance to become a SINC on account of this and other scarce and re-listed acid grassland plants, and when asked for his advice on management Martin simply advised 'keep playing football'.

We were encouraged never to give up looking for particular plants by Martin's story of his fifty-year search since the age of nineteen for Lesser Twayblade *Listera cordata* which he finally tracked down in Merionethshire.

Martin gave an up-date on the Wild Gladiolus census and explained that the New Forest Study Group is keen for help from Flora Group members so if you are interested in participating in the census in 2017, please keep an eye on the Hants Plants website site (<http://www.hantsplants.org.uk/index.php>) for details of dates and locations.

Martin also encouraged us to get involved in Atlas 2020 recording as this is a good opportunity to see interesting plants. A visit to the former World War II airfield at Beaulieu resulted in the discovery of a new population of Small Adder's-Tongue Fern *Ophioglossum azoricum*. Martin emphasised that the area to the east of Lyndhurst and Brockenhurst still needs to be covered for Atlas 2020. Everyone is welcome to help with Atlas 2020 recording so do look at the diary on the Hants Plants website.

Thank you to Tony Mundell and Martin Rand for arranging the event and to Pat and Clare for kindly looking after us and keeping us supplied with tea and coffee to quench our thirst during all the convivial chatting!



Nigel Johnson by display of orchid photographs at the 2016 Flora Group exhibition meeting (Catherine Chatters)

A Field Guide to the NVC – Part 5: Wet Brackish Grassland

Partly due to the large size of this edition of *Flora News*, I am holding back this article for another time, though the article itself turned out to be rather long and I am reconsidering whether to publish it in *Flora News* or not. If people are particularly keen to have more NVC articles, please let me know.

John Norton

Plant Notes

Update on the new(ish) *Erigeron/Conyza* hybrid

A note by Tony Mundell

In *Flora News* No. 50, the Spring 2016 issue, I included a brief article with a description and photos of a group of plants found by Paul Stanley that were clearly hybrids between Blue Fleabane *Erigeron acris* and Bilbao's Fleabane *Conyza floribunda*. According to the recent book *Hybrid Flora of the British Isles* by Clive Stace *et al.*, only a single plant of this hybrid had ever been found by the time the book was published in 2015, and that was in Ireland. However, apart from the colony in Hampshire, it has also very recently been found in West Suffolk and Cambridgeshire.

As the alien *Conyza floribunda* is still rapidly spreading in England, mainly as a weed in town centres, it seems likely that the hybrid will be increasingly found, so I decided to formally publish a Latin name for it. The hybrid genus *X Conyzigeron* had already been published so in the *New Journal of Botany* I named the new hybrid *X Conyzigeron stanleyi* and I sent a copy to Paul Stanley. Paul sent me a note saying he felt honoured by the new name and added that his wife Steph thought it appropriate 'being a scruffy plant of unglamorous locations'.

As a result of my article I was contacted by researchers at the Naturalis Biodiversity Centre in Holland, who wanted small samples of the hybrid and its two parents for DNA testing. They use Flow Cytometry to measure the amount of DNA per nucleus. This technique provides ploidy levels and can spot hybrids (per nucleus, tetraploids have twice the DNA amount of diploids and hybrids have an amount between that of the supposed parents).

So on 17 Sep 2016 I went to the M3 Winnall roundabout to get fresh specimens but was horrified to see that the site had just been closely mown, with the hybrids and the parents mown off within the last day or so. I found dried, severed bits of the hybrid but I had been asked for fresh specimens. Luckily I found one surviving hybrid beside the metal crash barrier, so I snipped a small piece off, and I also found both parents in the surrounding scrub.

I heard that the test results were: *Conyza floribunda* 4.92 picograms, *Erigeron acris* 2.86pg, and *X Conyzigeron stanleyi* 3.98pg. So that confirms that it was a hybrid.

In Europe *Conyza* is sunk within *Erigeron* as supported by DNA evidence. Indeed, I was recently in communication with Clive Stace who is currently writing the 4th edition of his *New Flora of the British Isles* and in that he will treat *Conyza* and *X Conyzigeron* as synonyms of *Erigeron*. So this means that the new hybrid will become *Erigeron x stanleyi* once it is formally renamed.

Update on the discovery of Field Eryngo *Eryngium campestre* in Hampshire

A note by Tony Mundell

In the Spring 2016 issue of *Flora News*, I wrote a note about the discovery of Field Eryngo in Hampshire which had been thought extinct here. The first thing I must do is point out that the photograph that I included of it was attributed to the wrong person. Brian Laney sent me that photo but he did not think to tell me that it was taken by Jon Stokes. Of course I assumed that Brian had taken the photo himself, so here it is again with a revised caption.



Field Eryngo *Eryngium campestre*, Sutton Scotney Service Station (Jon Stokes)

The single plant was found on 6 August 2015 by Paul Stanley. It was growing in a very precarious position only 60cm from the kerb of the A34 dual carriageway immediately north of Sutton Scotney Services. Very close to it there was a trench that had been dug some time ago and left protected with temporary fencing, so I guess that was why the plant had been spared from the mowers and had grown to become more visible.

Following on from the meeting with the Highways Agency that I reported earlier, I heard that they did erect the promised small fence around the plant to protect it from future mowing. It is such a rarity that it is covered by Schedule 8 of the Wildlife and Countryside Act. Under the necessary licence the main part of the fruiting plant was collected by Mervyn Brown (an expert on this species) and was donated to the Millennium Seed Bank at Wakehurst Place. A small piece was made into a herbarium specimen that is now held at Kew.

I was delighted to hear that the plant reappeared in 2016 and even more delighted to hear that at Wakehurst Place

a little of the seed had been sown and had germinated. The intention is to grow these plants on to provide more seed for the Millennium Seed Bank.

I have now been offered one or two of these young plants for introduction to a safer habitat in the same general area as the 'mother' plant. The bad news is that this will entail getting permission from Natural England that will have to comply with the stringent IUCN (International Union for Conservation of Nature) guidelines for re-introductions of endangered species. I don't know for sure yet, but I expect that the paperwork involved will be daunting. Certainly, the land owner for the recipient site will need contacting and 'getting on side' and there will be requirements for long-term site management and monitoring. Kew themselves have been directly involved with the introduction of endangered plants, particularly orchids. Examples are the Lady's-slipper *Cypripedium calceolus* and Fen Orchid *Liparis loeselii* that were raised from wild seed, grown on, and then planted in the wild. So I have asked them if they can help me with the process.

Elms in Hampshire – present and future

A note by Andrew Powling

We can probably all agree that identifying elms is not easy. Indeed, due to new species and cultivars, described below, presently being introduced to Hampshire, it will soon become more difficult. A problem with the elms is that Dutch Elm Disease (DED) has killed almost all the large trees, but the growth form of adult trees was a major character traditionally¹ used in the identification of the taxa.

It is recognised that many different forms of elms exist in Britain, but disagreements come over what taxonomic rank to give the different forms. Stace² gives the native species as *Ulmus glabra*, *U. procera*, *U. minor* (with three subspecies) and *U. plotii*. The subspecies of *U. minor* include at least six taxa that other authorities have previously considered to be species in their own right. Stace kept *U. procera* and *U. plotii* as separate species, but there is genetic evidence to suggest they should be sunk into *U. minor sensu lato* along with the other six taxa referred to above. Coleman^{3,4} has treated *U. plotii* as a clone, not a species, with no genetic variation between individuals showing the exact Plot's Elm phenotype. He listed it as a suspected clone of *U. minor* although stating that its origin is unknown. Mabberley⁵ had no doubt that it is a clone of *U. minor*. Gil *et al.*⁶ have shown that *Ulmus procera* is also a clone of *U. minor*, probably introduced into Britain nearly 2000 years ago by the Romans to provide supports on which to train their vines. The authors suggest that it is the Atinian Elm, known in classical times; they use the name *U. minor* var. *vulgaris* (Aiton) Richens.

This leaves us with just two main species in Britain: *U. glabra* and *U. minor*, only the first of which may be a true native. Coleman⁴ considered that the various clones of *U. minor* should be given the rank of horticultural cultivar. He made the point that these taxa should still

be distinguished because of their historical and cultural significance.

The destruction caused by DED is a problem for the White-letter Hairstreak (WLH) butterfly, *Satyrion w-album*, since mature elm is its sole food plant. The butterfly needs elm flowers and fruits to complete its life cycle, so non-flowering suckers growing in a hedge will not suffice. Butterfly Conservation (BC) has set out to help the WLH by trialling DED-resistant elm taxa at a number of sites in Hampshire. Some of these have already been widely planted as street and park trees in Hampshire. These introductions may be met with when recording, complicating elm identification.

The following brief account of some of the elms in the trials has been taken from Andrew Brookes' pamphlet⁷, and I thank him for extra information. More about the elms can be found at www.resistantelms.co.uk and links therein.

The European White Elm, *U. laevis*, has been introduced to Hampshire⁸ and is now being further planted by BC. It is not resistant to the DED pathogen (*Ophiostoma novo-ulmi* ssp. *americana*) but is rarely infected since



***Ulmus* 'New Horizon'. Above: trees beside Northern Road, Portsmouth; below: leaves (Andrew Powling)**

it contains a triterpene, Alnulin, in its bark which is an antifeedant for the vectors of the disease, *Scolytus* bark beetles. The species' preferred habitats are river valleys with heavy moist soils and it is able to spread by seed.

A number of DED-resistant *U. minor* clones have been selected by Spanish researchers. The best of these clones has the cultivar name 'Ademuz' and grows well on a wide range of soil types. It is scheduled to be released to commerce in 2017. It suckers well so will be able to spread locally but it remains to be seen whether it can set viable seed in the British climate. Since all individuals in a clone are genetically identical, there must be a danger that the pathogen will mutate to overcome the resistance and then kill every large tree, as happened with *U. procera*.

Many of the DED-resistant lines in the trials are hybrids between naturally resistant species: *U. pumila*, the Siberian Elm, *U. wallichiana*, the Himalayan Elm and *U. davidiana* var. *japonica*, the Japanese Elm. Examples include the Dutch cultivar 'Nanguen' (commercial name in Britain: LETÈCE); this has *U. glabra* and *U. minor* as well as *U. wallichiana* in its ancestry and can grow well on both moist and arid soils. It suckers and produces fertile seed in Britain. Two specimens at Newport, Isle of Wight, hosted the butterfly in 2015.

Cultivars from the USA include 'Sapporo Autumn Gold' (Japanese x Siberian elm), which is already widely planted in parks and requires well drained soil; and the more fastigate 'New Horizon', which has the same parental species and is now planted as a street tree in Portsmouth (see photos above). Neither produce much viable seed. The American cultivar 'Regal' was planted at IBM North Harbour, Portsmouth, in the 1970s and, almost certainly as a result, a WLH colony survives there. Italian cultivars with resistance from Siberian elm include 'Plinio', which prefers arid chalk soils (growing well on Portsdown Hill), and 'San Zanobi', suited to parks and streets due to its upright form.

It will be interesting to see whether any of these introductions can spread naturally in the wild.

References

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- ⁴ Coleman, M. (2002). British Wildlife, 13: 390-395.
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- ⁷ Brookes, A. (2016). Disease-resistant elms, Butterfly Conservation trials report 2016. Butterfly Conservation.
- ⁸ Mundell, T. (2013). *Flora News* No. 45 (September): 5-6.

Smooth Cord-grass *Spartina alterniflora* at Hythe

A note by Clive Chatters



Flowering Smooth Cord-grass *Spartina alterniflora* at Hythe (Clive Chatters)

This year I looked into the history of Cord-grasses in Southampton Water in an attempt to unravel the facts from the myths which surround the discovery of the Common Cord-grass *Spartina anglica* in the nineteenth century. To balance out the bookwork I dedicated some time to get to grips with identifying the parents which hybridised to create this new species, namely Small Cord-grass *Spartina maritima* and the Smooth Cord-grass *Spartina alterniflora*.

With the help of Martin Rand and Eric Clement I gained a rudimentary understanding of how to identify the Smooth Cord-grass in the field. Last year having failed to relocate the Bury Marsh population on a visit with Martin I diverted my attention to the stand off Shore Road at Hythe. Having had confirmation from Eric that I was looking at the right material I offer Flora Group members the following description of non-flowering material from Hythe *Spartina* Marsh SU 433 070 sampled in late July and early August 2016.

The Hythe material appears to be a single clone, broadly circular at c.18x20 paces at the landward side of the marsh which is readily located by being seaward of two pines. It grows in a very simple community with c.80% bare ground in which there are occasional plants of Sea-purslane *Atriplex portulacoides*, Glassworts *Salicornia europaea* s.l and Sea-blite *Suaeda maritima*. At about 30cm above the ground the *Spartina* forms a canopy of c.40% cover. At its edges the stand grades into 'typical' *Spartina anglica* marsh.

A description of non-flowering *Spartina alterniflora*

Each culm is distinctly separate on emergence from the rhizome without any tendency to form tussocks or clumps. The culm at ground level is c.1.2cm diameter containing a 0.6cm hollow. The oldest outer sheath of the culm in transverse section has a clear rectilinear hollow for each rib, below which are rounded hollow structures embedded in pith. The pith is absent from younger material.



A bouquet of *Spartina*. The larger plants are *S. alternifolia*, the smaller plants are the initial progeny of their hybridisation *S. x townsendii* which was first described by the Groves brothers as *S. townsendi*.
(Clive Chatters)



Emergent culms of *Spartina alternifolia* (Clive Chatters)

The leaves are stiff but brittle, splitting when flattened. Smaller specimens hold their leaves erect, the longer leaves of larger specimens may droop creating a 'fountain', profile. In early August the larger culms had 8 leaves, the three immature inner leaves being in-rolled into one another.

The mature leaves are flat in the field but become in-rolled shortly after picking, a characteristic difficult to guard against when pressing specimens. The younger leaves are all in-rolled and held erect.

Ligules vary from being continuously ciliate hairy to having the central portion an undulating membrane. Sheath margins are minutely ciliate.

The lowest leaf sampled was 61cm from ligule to tip. Leaf width tapered from being 1.8cm wide immediately above the ligule, to 1.3cm wide at 30cm above ligule and 1cm wide at 45cm above ligule. At c.50cm above the ligule the leaf starts to in-roll and tapers to the leaf tip which comprises a strong sharp reddish-brown point.

The leaf edges have transparent margins from which emerge widely spaced minute upward pointing simple

prickle-like hairs, these are rarely singly hooked or curved. The hairs usually occur singly but occasionally in groups or 2 or 3. On young leaves emerging from in-rolled growing points these hairs appear to be more or less opposite, this characteristic diminishes as the leaf matures.

In July and early August there were no indications of any flowering shoots. Nineteenth century herbarium specimens include material in flower and fruit from these dates. Flowering material developed through late August with anthers and stigmas emerging in the first week of September.

If all goes well you can read the story of Southampton's Cord-grasses in 'Saltmarshes' which is scheduled to be published by Bloomsbury in July as part of their British Wildlife Series.

A hybrid *Spartina* in the 1996 Flora of Hampshire

A correction by Clive Chatters

On p.287 of the *Flora of Hampshire* (Brewis *et al.* 1996) the introduction to the account of Cord-grasses *Spartina* includes the following:

'In 1815, the sterile hybrid between the native *S. maritima* and *S. alterniflora* was detected by F.A. Edelstein for the first time on the banks of the River Itchen and specimens are in the Hb.BM'.

I drew this record to the attention of Mark Spencer, curator of the herbarium of the British Museum, who confirms that no such specimens exists of this hybrid, from that collector in that year. Quite how such a precisely worded error was included in the *Flora* and remained uncorrected for so long is a bit of a mystery.

Reference

Brewis, A, Bowman and Rose, F. (1996) *The Flora of Hampshire*. Harley Books, Colchester

News and Notices

Dissecting microscope with built-in camera for use of Flora Group

A note by Martin Rand

People who have come on recent Flora Group workshops will know that we now have use of a dissecting microscope with a built-in digital camera. For this our warm thanks go to the Wild Flower Society, which made a grant covering the greater part of the cost.

The microscope itself offers magnification from 10x to 40x, and can be used as a conventional binocular dissecting scope. The CMOS camera is housed in a separate turret, and has a 3 megapixel resolution, which is modest compared to most modern digital cameras but a lot better than the cheaper digital webcam scopes one sees on general offer. It provides enough detail to

give a decent image for printing, or for projection via a PC and projector. There is built-in lighting which has a limited amount of adjustment, but for incident light you may find an external lamp better.

Getting the images to a computer requires a special software driver that has to be installed under Windows. I have had some problems with installing this on my Windows 10 laptop, but that seems to be down to my specific make of laptop not permitting a modification to the BIOS settings which would allow the installation to be authorised. Other Windows 10 users are less likely to have these difficulties provided that they have Administrator privileges on their computer. It runs perfectly well on my Windows 7 tower, and the Wildlife Trust now have several laptops with the driver installed. The additional software that comes with the device allows image capture and manipulation, and although it isn't the last word in image processing, does the basic job and is not hard to use. If you have a project that requires these facilities, contact the Wildlife Trust office to make arrangements.

If you want to capture images for later use, depth of focus becomes an issue at these magnifications. The human eye / brain makes allowances for this in live use, but inevitably the PC screen makes the lack of depth glaringly obvious. The usual way round this is to use 'focus stacking' software, which takes a set of images taken at slightly different focal points and processes them to produce a new image which gives the best definition possible across the range. Careful use of the rack and pinion focusing on the microscope achieves the range required. There are several software packages available, but the Wildlife Trust doesn't have any of these at present. They range in price from free to very expensive, and in ease of use from 'dead simple' to 'only suitable for those with a lifelong career in image processing'. I am using one called Helicon, which provides a free 30-day evaluation. After that, one can obtain a 1-year license for about £17 or a perpetual license for £65 (at the time of writing). At its simplest the user interface is as simple as 'here's a bunch of photos – see what you can do with that', but it also offers controls over the rendering

process, image retouching facilities and the ability to add annotations and scales. So far I have got my best results at 20x, and need to experiment more with 40x images. I hope that over the next year you will see more from me in the way of ID aids with high magnification close-ups.

New Forest Non-Native Plants Project

A note by Catherine Chatters, New Forest Non-Native Plants Officer

The New Forest Non-Native Plants Project (NFNNPP) has continued to tackle the spread of Himalayan balsam along riverbanks in the New Forest during 2016 with the help of 248 people who generously gave 2,250.5 hours of their time on volunteer work parties. Good progress is being made along the Cadnam River, the Avon Water, the Beaulieu River and the Lymington River and its tributaries the Mill Lawn Brook and the Passford Water. In addition to our 'regular' volunteers, work parties have involved youth groups (Cubs, Scouts, Guides and Explorer Scouts) and a number of corporate groups including staff from Bournemouth Water, SSE, Lloyds Bank, the Royal Yachting Association and Ridge LLP. Further work parties to pull up Himalayan balsam will be held in summer 2017 so please get in touch with me at Catherine.Chatters@hiwwt.org.uk or on 07770 923315 if you would like details of dates and locations.

The previous edition of *Flora News* included a note about the Golden Club *Orontium aquaticum* which had been discovered by consultants in a pond in the North of the New Forest. This has now been treated with herbicide by contractors on behalf of the NFNNPP and it will be interesting to see how the plants respond to the herbicide treatment.

During 2016 the NFNNPP commissioned contractors to treat the Cotoneaster which is invading the former WWI airfield at East Boldre and the former WWII airfield at Beaulieu Heath; initial observations indicate that the herbicide treatment is working well and further work is planned at these sites in 2017. In autumn 2016 survey work continued to map the Cotoneaster growing on the former WWII airfield at Stoney Cross.

Other species being tackled on the Crown Land include Buddleia, Japanese knotweed, Purple Pitcher-plant *Sarracenia purpurea*, Bog Arum *Calla palustris*, *Iris laevigata* and Montbretia *Crocasmia x crocosmiiflora*.

Three-cornered garlic *Allium triquetrum* is invading road verges in the New Forest area and was tackled by the NFNNPP for the first time along Fletchwood Lane during summer 2016.

Work continues with the control of giant hogweed along the Avon Water, Japanese knotweed along the Cadnam River and American Skunk-cabbage *Lysichiton americanus* near Minstead, all funded by the Heritage Lottery Fund through the 'Our Past, Our Future, Landscape Partnership Project. Graduates from Southampton University are monitoring the success of this work and I am grateful to Sophie Watts and Ben



Micrograph of *Euphorbia* capsule. Labels from left to right: capsule ridges with small papillae; 3-chambered capsule; 3 styles (Martin Rand)

O'Hickey who undertook the monitoring during summer 2016.

Thank you to everyone who has volunteered with the NFNPP during 2016 – your help is very much appreciated.



Sophie Watts & Ben O'Hickey with American Skunk-cabbage (*Catherine Chatters*)

Elizabeth Young

A tribute by Clive Chatters

In October last year we learnt of the death of Elizabeth Young of Milford-on-Sea, a skilled botanist and stalwart of the Flora Group. Elizabeth's easy manner and generosity of spirit belied her exceptional skills as a botanist and administrator. On expeditions she was a regular source of diagnostic mnemonics for the critically minded as well as extending a welcome to beginners just wanting to see 'something special'.

Elizabeth was one of that generation brought up on Bentham and Hooker's Flora who would turn up to botanical forays dressed in tweed hat, Barbour and plaid skirt. Her stamina and breadth of friendships was sufficient to require four parties to celebrate her 80th Birthday. I have happy memories of her glowing with the thrill of being galloped around a village hall in the arms of a dancing master.

Elizabeth's zest for life will be much missed.

Apology

On behalf of Hampshire & Isle of Wight Wildlife Trust, the Flora Group would like to apologise to those members who had to pay a Post Office fee to receive their paper copy of *Flora News* Autumn 2016. Although the correct postage was paid by HIWWT, an administrative error occurred resulting in Flora Group members having to pay a fee. The Trust is very sorry about this. If you would like to receive a refund, please contact Catherine Chatters whose contact details are on the back page of this newsletter.

Catherine Chatters

Erratum

In *Flora News* No.49, p.29, within the VC12 Records section there was a report of the hybrid grass X *Elytrordeum langei* (*Elytrigia repens* x *Hordeum secalinum*). It transpired that this was an error. Specimens sent to Dr Tom Cope were determined as a very unusual form of Common Couch *Elytrigia repens*.

Martin Rand

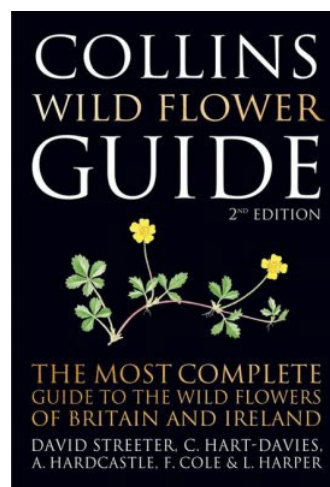
Flora Group on Facebook

Just a reminder that a Facebook group page for the Hampshire Flora Group has been set up. It will act as a forum to exchange news on Flora Group events and for members to post photographs of unidentified, unusual or interesting plants in Hampshire. It is a closed group, so to join search for 'Hampshire Flora Group' in the Facebook search box and click the 'Join Group' box. You need to be signed up and logged in to Facebook of course.

John Norton

Book Reviews

Collins Wild Flower Guide, 2nd edition (2016) by David Streeter *et al.*, Collins, London



The first edition of this field guide appeared in 2009 as 'Collins Flower Guide', when it immediately became a contender for 'best in field' for its very comprehensive coverage of our flora and the generally high standard and clarity of its keys. It scored over its main rival, Rose and O'Reilly's *Wild Flower Key*, in covering grasses, sedges, rushes and ferns, removing the need to carry extra books into the field. For a popular field guide it had a good selection of non-natives, although a few widespread species seemed to have been excluded rather arbitrarily, given the inclusion of some real rarities like *Solanum triflorum*. Unfortunately, its illustrations were of variable quality (the best admittedly very good), and not improved by the reduction to a smaller scale – nor by the printing of lightly delineated detail on a

white background. Other groups would have benefited from more use of enlarged thumbnail detail like that provided for grasses and sedges. It bravely tackled some of the smaller critical genera such as Eyebrights and Rowans, while sensibly avoiding the larger ones such as Hawkweeds and the majority of Brambles, and the controversial ones like Sea-lavenders. However, the treatment of these genera wasn't altogether satisfactory; it is impossible to construct short simple keys to these groups based on 'one route to the answer'. *Alchemilla* were listed and illustrated but not described,

One drawback shared with the *Wild Flower Key* outside the control of either book is that they preceded the appearance of the 3rd edition of Stace's *New Flora of the British Isles* – unluckily by just one year in the case of the *Collins Wild Flower Guide*. Since the *New Flora* brought in quite a lot of name changes at the species level, and some major reorganisations of families as a result of recent molecular research, this has made the transition from popular guide to big technical Flora harder for users. This is the main issue that this second edition addresses. All names have been brought up to date and the new family names inserted into the relevant points in the keys and text. This has been achieved without affecting the number of pages overall, and other than some adjustments to the general keys at the beginning, page layouts are unaltered.

There are a few other changes: technical content isn't one of the main ones. I am pleased to see that all illustration captions now include the scientific as well as the English name. Magnified detail on the illustrations stands out more clearly by inclusion in a small outline circle. Short keys inline in the main text are now colour-coded like their bigger brethren to make them prominent; it's a pity that the font of scientific names hasn't been made a bit easier to read. In a few instances, spare page space has been put to good use, such as geographical listings for the *Sorbus* species. The pattern of the general key for flowering plants has been retained, with a number of improvements: the rather awkward key to the 'Top 20 families' has been replaced with a more workable conspectus which is half key, half listing of diagnostic features. Extra families formerly billed confusingly as 'Typical 5 families' are now helpfully renamed as 'The distinctive 5'. The size of the colour thumbnails accompanying each family has been increased so that they are now mildly helpful rather than maddening, and typography of headings in the key has been improved.

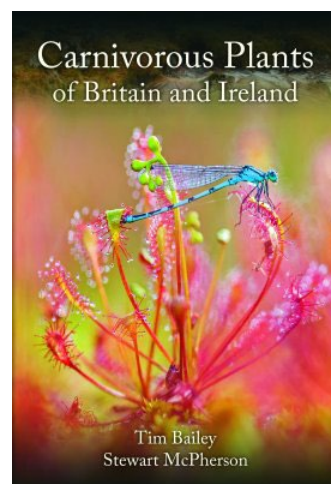
If you already own edition 1 of this book, should you rush to get the new one? Unless you are an ardent completist, the answer is probably 'no', at least until your present copy starts coming to bits. By now you have probably managed to come to terms with those things that needed improvement. But if you are new in the market for a good all-in-one popular field guide, then in my view this is now the one to go for.

Oh, and one last thing. The unwarranted claim on the first edition cover 'The Most Complete Guide to the Flowers of Britain and Europe' has been replaced by 'The Most

Complete Guide to the Wild Flowers of Britain and Ireland'. Within its genre, that would be hard to dispute.

Martin Rand

***Carnivorous Plants of Britain and Ireland* (2016) by Tim Bailey and Stewart McPherson, Redfern Natural History Productions, Poole**



Redfern are noted for producing large glossy books chiefly on the carnivorous plants of the world, combining science and natural history with stunning photographs and interesting background and historical information. Here is something different: a small glossy book that will go into a large pocket, with a practical waterproof plastic cover, dealing with just the 13 native species and 3 established non-natives found in Britain and Ireland. All recorded hybrids are also covered in some detail. The stunning photos are still there (mixed with a few not quite so stunning), and show habitats, general plant portraits, and very useful close-ups.

If you are already an aficionado of these intriguing plants, you will probably not come away with a great deal new from this book. On the other hand, having this much detail on identification, biology and habitat brought together in one place is a bonus, especially when so well illustrated. On the ecological side one might wish for some linkage to vegetation communities alongside the discursive habitat descriptions. The photographs are supplemented by a few historical colour plates, and a few line drawings by François Mey that leave one wishing for more.

The book is fronted by a very brief conspectus of these plants' place in the world and the evolutionary process, and rather more on the historical development of our understanding of plant carnivory, and Charles Darwin's role in it. Following this, each genus gets a general account of its world position, its biology and any cultural uses and historical references. Only the Bladderworts *Utricularia* get a key for identification, which is fair enough given the small number of species in the other genera.

Species and hybrids then get their individual accounts, covering early records, morphology, distribution in Britain and Ireland, habitat, and any additional notes of

historical or general interest. There is no information on cytology, which is surprising given its possible bearing on hybridisation. Distribution maps are a weakness of the book: they seem accurate and are of a reasonable size, but the colour scheme chosen makes it hard to spot dots in very dispersed distributions, and it must be even worse for anyone with impaired colour discrimination. Given the significance of the decline of these plants in many regions in indicating habitat loss or degradation, it is also a pity that no age banding is shown. Fortunately, the BSBI's Distribution Database is available freely to all to make up for these shortcomings. The illustrations have a role to inform as well as delight, and here I would single out the comparative shots of Sundew *Drosera* species and their hybrids; the overwintering buds of *Drosera* and *Pinguicula*; and the photographic comparison table of quadrifid hairs in *Utricularia*, as well as the close-ups of leaves and bladders in the same genus.

The main body is followed by a shorter similar account of the established non-natives, with appropriate attention given to the invasive character of Purple Pitcher-plant *Sarracenia purpurea* and attempts at its control. The well-established presence of the extremely bizarre Cobra Lily *Darlingtonia californica* in an Irish bog will probably come as a surprise to many readers; it may also turn out to be of conservation concern.

Finally, there is a very brief section on carnivorous plants in UK Overseas Territories (which mostly don't offer suitable environments for carnivorous plants); a longer but rather superficial account of habitat loss; and appendices which include details of societies, nurseries, web sites and further reading.

Hampshire and neighbouring parts of Dorset in the Hampshire Basin contain, or have harboured in the past, 14 of the native species and hybrids and 2 of the non-natives. This is a book that should appeal to anyone with an interest in our local flora, especially given its attractiveness and modest price.

Martin Rand

Recording

VC11 Notes and Records

Compiled by Martin Rand (December 2016)

Once again there has been an impressive haul of records in 2015-2016. Inevitably the initials of the stalwarts of Atlas 2020 recording turn up a lot in the following records, and it goes to show that working persistently over an area will continue to throw up new things, even in the less exciting parts of the county. But it's also very gratifying to see how many people are now submitting records, with new names appearing each year.

Of course, large numbers of the 'New for...' records are for non-native species. You may feel that these don't deserve the same attention as the natives, or that they are just too challenging – after all, if one excludes microspecies like Dandelions, there are nearly twice as

many introduced species in the British flora as natives, just counting those mentioned in the Stace Flora. But recording them is important; even when they are not establishing their own foothold, many are being planted increasingly in the wider countryside, alongside (or even supplanting) native species. Some are close relatives of natives and may not always be recognised as different.

On this theme, several people started the botanising season early this year looking at sites for spring bulbs, particularly Crocuses, Snowdrops and Narcissi. Most of these originate from plantings in obvious places such as churchyards and municipal parks, but some have established in the wilder parts of these sites alongside native meadow species, and a few have an evident ability to go farther. The Early Crocus *Crocus tommasinianus* and Spring Crocus *Crocus vernus* are the most recorded, and in my experience the former is the better able to get established in semi-natural vegetation. It is most distinctive when flowers are closed, appearing spindly with a long pale throat. When the flower is fully open in sunshine it is much more flamboyant. Yellow Crocus *Crocus x luteus* (*Crocus x stellaris* in Stace) is also proving to make a fair showing; since this doesn't appear in many Floras or guide books, it's possible that some records of other yellow-flowered Crocuses really belong to this.

The commonest Snowdrop, *Galanthus nivalis*, is of course widespread and often far from human habitation. Its hybrid with the Pleated Snowdrop, *G. nivalis x plicatus*, is probably the next most frequently to be seen, but I suspect remains under-recorded; it is very variable and might be overlooked, but many populations in churchyards and elsewhere contain at least some of these, and it looks as if many of the plants available for sale are this hybrid. The pure species of Pleated Snowdrop is a distinctive plant, with its strongly folded leaves and typically large, bulbous flowers. We have far fewer records so far of the Green Snowdrop *G. woronowii*, which as its name suggests has leaves of a fresh mid green quite unlike most other species, and none at all as yet of another green-leaved species *G. ikariae*. Yet another distinctive species, the Greater Snowdrop *G. elwesii*, which has its broad leaves rolled around each other at the base rather than lying more or less flat and opposed to each other, does now have quite a few Hampshire records. If you would like to get out early in the year and hunt some of these plants down, there is a very good crib written by Mick Crawley available on the BSBI web site at http://bsbi.org/Snowdrop_identification.pdf, and some additional notes and photos on the Hants Plants web site at <http://www.hantsplants.org.uk/galanthus.php>.

But the spring bulbs that go farthest and fastest into the countryside at large are the Daffodils and Narcissi. If you want to record these you face a much greater challenge; there are approaching 30,000 cultivar names registered with the RHS! However, the suggestion is that only(!) about 18,000 of these are unique, and it's estimated that about 500 are commercially produced. Because many of these are complex crosses sometimes involving several species, they are classified for horticultural purposes

not along the usual taxonomic lines but into 'Divisions' categorising the forms of the flower.

If you're going to record *Narcissus*, I don't suggest that you try and identify cultivars: true, there are a few like 'Ice Follies' and 'February Gold' that pop up time and again which you will come to know, if you don't already, but there are just too many unless you are going to specialise in them. Nor is recording Divisions much use from a botanical point of view. But the treatment in the 3rd edition of the Stace Flora, which covers the main species and hybrids, is a reasonable basis for tackling them; I reckon that with its help one can reliably put names to 60-70% of the plants one encounters in the countryside at large. One point to watch if you learnt your Daffodils from older books; many of the taxa that were once treated as subspecies or forms of *Narcissus pseudonarcissus* (our one native Daffodil) are now given full species ranking. For instance, the very widely planted and naturalised 'Bog-standard Daff', formerly known as *Narcissus pseudonarcissus* subsp. *major*, is now called *N. hispanicus*. It will be very helpful if you can use the new Stace names when recording these plants, and keep the name *N. pseudonarcissus* for our native plant (which of course can occur either wild or introduced). Here are the equivalent names, if you don't have Stace edition 3.

- *N. pseudonarcissus* = *N. pseudonarcissus* subsp. *pseudonarcissus* (Daffodil)
- *N. obvallaris* = *N. pseudonarcissus* subsp. *obvallaris* (Tenby Daffodil)
- *N. hispanicus* = *N. pseudonarcissus* subsp. *major* (Spanish Daffodil)
- *N. nobilis* = *N. pseudonarcissus* subsp. *nobilis* (Large-flowered Daffodil)
- *N. maculobus* = *N. pseudonarcissus* subsp. *pallidiflorus* (Pale-flowered Daffodil)
- *N. moschatus* = *N. pseudonarcissus* subsp. *moschatus* (White Daffodil)

One of the highlights of the year was a visit by Roger Maskew, a Rose expert and the BSBI's *Rosa* referee, when several of us were able to accompany him on trips around the west of the vice-county. We notched up a lot of new records, although there was nothing entirely new for VC11; this is largely down to the earlier efforts of people like Paul Stanley. But we did fill in a lot of holes in distribution as reflected in the notes below, revisited some classic known sites to see how populations were faring, and all got to understand a lot better how to detect hybrids. Roger had already determined on a previous visit that, like other parts of the south, south-east Hampshire had populations of a hybrid rose (*Rosa* x *dumalis*) one of whose parents (*R. caesia*) doesn't occur in the region at all! This proved to be equally true of the south-west, and we made several new records.

On the downside, the rather rare Sweetbriar *R. agrestis* doesn't seem to be faring very well in the chalkland area around Breamore and Rockbourne which was one of its strongholds. One of its best sites is now going up to

secondary woodland; a hedgerow site has been grubbed out to be replaced by – yes – a garden rose; while on the New Forest, it suffers along with other species through severe trimming of the road verges. Another of the New Forest's special plants, the normally northern and western Sherard's Downy-rose *R. sherardii* is still doing well on the east side of the road at Goatspen Plain, but has been flailed, half dug up and had gravel dumped over it on the west side, to the point where just a couple of almost unrecognisable stumps remain. Still, Roses are resilient things, and given half an opportunity these might recover. Due to the hunting endeavours of Gareth Knass and Andy Cross a few days earlier, we were able to confirm the presence of a hybrid involving another Downy-rose (Harsh Downy-rose, *R. tomentosa*) on Beaulieu Aerodrome, although we saw no *R. tomentosa* anywhere in its pure state; but at least we had the satisfaction of demonstrating to Roger that not only was the mostly midland Round-leaved Dog-rose *Rosa obtusifolia* present in this part of Hampshire but quite widespread. It seems that South Hants is the only part of southern England where this is the case.

In 2015 Mike Rowe found a hybrid sedge in the *Carex nigra* group (*C. acuta* x *nigra*) by the Lymington River close to Boldre. This is a rare hybrid in Britain as a whole, and it was only the second record in Hampshire and the first for well over 100 years. So I was pleased to accompany Richard Lansdown on a visit to the site this May. (We hope to have the benefit of Richard's expertise back again in July for a field meeting dedicated to aquatic plants – see the details of forthcoming meetings at the beginning of the newsletter.) After walking straight past the plant once (it doesn't exactly leap out at you from a distance) we realised we had overshot, but had no trouble on the rebound. Close up it has one very useful diagnostic feature. Common Sedge *C. nigra* has stomata on the top surface of the leaf; Slender Tufted-sedge *C. acuta* has them on the underside. Since no self-respecting member of the *C. nigra* group would be seen dead without stomata, the hybrid makes its compromise by having them on both sides, a feature it shares with Estuarine Sedge *C. recta* (and that may tell us something about the origins of *C. recta*). Since Estuarine Sedge occurs only in the far north of Scotland and a few parts of northern Scandinavia, it's not likely to give us much ID trouble in Hampshire.

Our hybrid is said to grow often in the absence of the *C. acuta* parent, so we decided to see whether we could find the parents nearby. In fact, *C. acuta* proved to be present in quantity in the ditches and hollows of the damp pasture just behind, which was gratifying as it was a new site for the species. Although there was no *C. nigra* in the immediate vicinity, it occurs a couple of fields to the south. *C. acuta* itself is not particularly rare in England but quite localised in the county, with most of the southern Hampshire sites in the catchment of the Avon, Stour and Moors River. Many of the records are old, so it was gratifying to have Felicity Woodhead's records from Ogber this year. I have also found it south of Ringwood in 2015. If you feel like working your way



Carex acuta x nigra, Lympington River near Boldre, 20 May 2016 with upper and lower surfaces showing stomata (Martin Rand)

along the riversides of this part of Hampshire you may be able to add more up to date sightings – there is quite good public access to many points. And since the 1900 record of the hybrid was in the Christchurch area, you never know whether you might find that again, too.

This issue of *Flora News* was intended to have some separate notes from me on progress with Atlas 2020 and what lies in store for the next three years. Unfortunately, time has been hijacked by circumstances or, as Harold McMillan described the overarching enemy of good intentions in politics, ‘events, dear boy, events’. However, anyone involved or merely interested either in recording for Atlas 2020, or in logging records generally using one of the freely available recording systems, should have a look at the front of this issue for the meeting arranged for

Saturday 18th February. The first part of the day will look at progress so far with Atlas recording, what still needs to be done and what new tools are available to help the process along. There will also be a look at the facilities available in the BSBI’s national Distribution Database. In the afternoon we will provide a guided tour of the two main online tools for record entry (Living Record and iRecord) and the new app for phones and tablets, iRecord mobile app.

The codings at the front of each plant are:

*** = Hampshire notable (** = British or English Red List).** I list these whenever I have a record for a tetrad that is either new, or the first for a long time (usually taken as about 25 years, but for species ‘on the brink’ it can be shorter). However, the account would be long and tedious in the case of some plants now on the English Red List that are widespread in Hampshire, so I have summarised tetrads for these unless the record is a significant extension to the known range. First records for a long time have the last recorded year in brackets; new tetrads are simply listed.

NA = Native or Archaeophyte. Again, I list these if they are new vice-county records, new to a hectad or the first for a long time.

IN = Invasive, or Potentially Invasive, Non-native. I use the IUCN’s three-pronged definition of ‘Invasive’, so that a plant like *Artemisia ambrosiifolia* (Ragweed), which hasn’t actually invaded anywhere in Hampshire yet but will pose a health hazard if it does, are included. I also list these for new tetrads, but when you are recording I would like as precise a grid reference and as many supporting details as possible.

NN = other Neophyte Non-native. Defining Neophyte (arrived after 1500) or Archaeophyte (arrived by 1500) in a local context is beset with difficulty, but I use this category if the plant **in the given location** is outside its generally agreed native range and can reasonably be inferred to have got there recently by human agency whether intentional or not. That includes plants that are native elsewhere in Britain, or even nearby in other habitats. Generally, I list these if they are new vice-county records, new to a hectad or the first for a long time. For some, I simply list new hectads. I mostly exclude patently planted trees and shrubs occurring in gardens, municipal parks and cemeteries unless they are also self-establishing or very likely to do so. However, I keep records for them on the database so such records are welcome, provided you state that they are ‘Planted’ if the only individuals clearly are planted, or ‘Introduced’ if they are spreading naturally from original plantings.

Abbreviations for recorders and determiners are:

AEB = Alison Bolton; **AHP** = Andrew Powling; **ALe** = Andrew Leonard; **AMC** = Andy Cross; **ASt** = Anna Stewart; **BGo** = Barry Goater; **BF** = Brian Fellows; **BHep** = Brian Heppenstall; **BMD** = Ben Mead; **BSBI** = BSBI field meeting (leader’s initials in brackets); **CC** = Clive Chatters; **CCh** = Catherine Chatters; **CCr** = Cameron Crook; **DC** = David Caals; **DHu** = David Hughes; **DL** = David Leadbetter; **DN** = Dawn Nelson; **DRA** = Debbie Allan; **ECu** = Ms E. Curtis; **EJC** = Eric Clement; **FA** = Frances Abraham; **FAW** = Felicity Woodhead; **GCo**

= Ginnie Copsey; **GFa** = Geoff Farwell; **GLo** = Graham Long; **GTo** = Geoff Toone; **HFG** = Hampshire Flora Group meeting (leader's initials in brackets); **ILR** = Ian Ralphs; **JAN** = John Norton; **JDem** = Jonathan Dempsey; **JF** = Jeanette Fryer; **JMill** = Joel Miller; **JOa** = Jill Oakley; **JPol** = John Poland; **JSt** = Jonathan Stokes; **KB** = Keith Betton; **MDu** = Mark Duffell; **MHar** = Mike Harris; **MR** = Martin Rand; **MWR** = Mike Rowe; **MWS** = Malcolm Storey; **NAS** = Neil Sanderson; **PAB** = Phil Budd; **PBa** = Paul Bartlett; **PD** = P. Dowling; **PJW** = Phil Wilson; **PM** = Peter Marston; **PMS** = Paul Smith; **PW** = Pat Woodruffe; **RCR** = Clare Rand; **RMas** = Roger Maskew; **RPH** = Robin Harley; **RVHL** = Richard Lansdown; **SP** = Steve Povey; **TWd** = Trevor Woodcock.

NN *Abies alba* (European Silver-fir): Parkhill Inclosure, SU322058; 28 Jul 2016; MR et al. (Planted). **1st for SU30.**

NN *Acanthus mollis* (Bear's-breech): Yoell's Copse, SU6812; 12 May 2016; AHP & EJC. Garden throw-out. **1st for SU61.**

NN *Acer cappadocicum* (Cappadocian Maple): Boldre church area, SZ323994; 22 May 2015; MWR conf. CCr 04/12/2015. Planted in Boldre churchyard, SZ 3235 9942. (Planted). **1st for SZ39.**

NN *Acer rubrum* (Red Maple): Boldre church area, SZ324994; 22 May 2015; MWR det. CCr 04/12/2015. Planted in Boldre churchyard, SZ 3243 9940. (Planted). **1st for SZ39.**

NN *Acer saccharinum* (Silver Maple): Ashley (S side), SZ251948; 01 Aug 2015; MWR. Planted in roadside hedge, Caird Avenue, SZ 2518 9483. (Planted). **1st for SZ29.**

NN *Acer saccharum* (Sugar Maple): Bransgore North, Elmers Copse, spring, Prinks Wood, common, roads, SZ1898; 17 May 2015; FAW. On common opp spring. **1st for SZ19.**

***NN *Adiantum capillus-veneris* (Maidenhair Fern):** Buriton, SU735200; 19 Mar 2016; ALe. Kiln Lane Railway Bridge. **1st for SU72.** Sway, SZ281988; 02 Jun 2016; ALe. Railway Bridge over Manchester Road. New Forest, SZ281988; 08 Aug 2015; ALe. Manchester Road, Sway. **1st for SZ19.**

NA *Agrimonia procera* (Fragrant Agrimony): Muscliff, Granby Road area, riverside path south first part, SZ0995; 18 Aug 2015; FAW. riverside south, far end of wooden boardwalk. Parley Court South, Stour Valley N, Muscliff Riverside S, SZ0996; 21 Aug 2015; FAW. **1st for SZ09.**

IN *Ailanthus altissima* (Tree-of-heaven): Exbury, SU423005; 31 Jul 2016; MWR. Planted, Exbury Gardens, SU 4231 0054. (Planted). **1st for SU40.**

NN *Allium neapolitanum* (Neapolitan Garlic): Bank View, Lymington, SZ320967; 12 May 2016; DL. Bankview, Lymington at 32005 96717. (Introduced). **1st for SZ39.**

IN *Allium triquetrum* (Three-cornered Garlic): Breamore Churchyard, SU153188; 24 Apr 2015; BSBI (MR). (Introduced). **1st for SU11.** Blendworth Churchyard, SU711135; 25 Feb 2016; MR, GCo & DN. (Introduced). **1st for SU71.**

NN *Allium ursinum* (Ramsons): Druitt Gardens, SZ156927; 28 Apr 2015; RPH. (Planted). Druitt Gardens, SZ157927; 18 Apr 2016; RPH. **1st for SZ19.**

NN *Amaranthus bouchonii* (Indehiscent Amaranth): E of Sandford, SU175016; 01 Sep 2016; MWR. **1st for SU10.**

NN *Ammi majus* (Bullwort): Throop West, Muscliff Community Centre, SZ1095; 30 Jul 2015; FAW. wild flower area. (Planted). Queens Park East, Queens Park from QP S Drive car park to pond, SZ1193; 26 Aug 2015; FAW. (Planted). **1st for SZ19.**

NA *Anagallis arvensis* subsp. *arvensis* f. *carnea* (Pink Scarlet-pimpernel): Mockbeggar Cross Lanes, SU159093; 22 Aug 2016; MR & GCo. **1st for SU10.**

NA *Anagallis tenella* (Bog Pimpernel): SU41C (1984), SZ09Z.

NN *Anemone apennina* (Blue Anemone): East Meon Churchyard, SU680222; 25 Feb 2016; MR, GCo & DN. Thoroughly naturalised in grassland on S bank of churchyard. (Introduced). **1st for SU62.** Portmore, SZ336970; 10 Apr 2016; MWR. Roadside, Snooks Lane,

SZ 3362 9708, presumed planted (with *Narcissus pseudonarcissus*). **1st for SZ39.**

NN *Anemone blanda* (Balkan Anemone): Blendworth Churchyard, SU711135; 25 Feb 2016; MR, GCo & DN. Sepal hairs absent. (Introduced). Chalton churchyard, SU732159; 25 Feb 2016; MR, GCo & DN. Appearing recently established. (Introduced). **1st for SU71.**

****NA *Anthemis cotula* (Stinking Chamomile):** Dibden Purlieu (W side), SU407061; 18 Sep 2015; MWR. Roadside, A326, SU 4071 0618. Probably sown (Glebionis segetum nearby). **New tetrad.**

***NA *Anthriscus caucalis* (Bur Chervil):** Fir Grove Farm South, Palmersford, track S side of sewage works+, SU102004; 30 May 2015; FAW. SU10242 00477. **1st for SU10.** Wick East, Stanpit Marsh SW, Grimmerly Marsh, harbour, Crouch Hill, SZ164918; 25 May 2015; FAW. Grimmerly Barn, SZ1645 9183. **1st for tetrad since 1976.**

NN *Anthriscus cerefolium* (Garden Chervil): Pokesdown, Kings Park, Petersfield Rd car park and Kings Park Dr, SZ124926; 13 Jun 2015; FAW. Kings Park, 12418 92682. **1st for SZ19.**

****NA *Arabis hirsuta* (Hairy Rock-cress):** Ramsdean Down, SU711200; 04 Jul 2016; SP. Several plants beside car-park on top of Butser Hill at SU7116 2004. **New tetrad.**

NN *Asparagus officinalis* (Garden Asparagus): Braishfield, north of, SU374261; 28 Oct 2015; PM. Beside road at SU3748 2613. **1st for SU32.**

NN *Aster lanceolatus* (Narrow-leaved Michaelmas-daisy): Brook Meadow (SU75090597 E of path), SU750059; 18 Oct 2016; DN & JOa conf. MR. **1st for tetrad since 1969.**

NN *Aster x salignus* (Michaelmas Daisy (*A. lanceolatus* x *novi-belgii*)): Durlay Road, Fair Oak, SU501173; 13 Oct 2016; MR & GCo. Lane verge and ditch. (Introduced). **1st for SU51.**

NN *Aubrieta deltoidea* (Aubretia): Emsworth, SE, SU7505; 02 Feb 2016; DN & JOa. In flower. **1st for SU70.** Holdenhurst Sewage Works, Hillside Drive estate, SZ1395; 10 May 2015; FAW. Hillside Drive. **1st for SZ19.**

NN *Aucuba japonica* (Spotted-laurel): Ditcham Park, SU749178; 01 Apr 2016; MR. (Planted). **1st for SU71.** Petersfield Heath South, SU7522; 27 May 2016; SP. In hedgerow north of pond. **1st for SU72.**

IN *Azolla filiculoides* (Water Fern): Highfield Valley Gardens, SU423152; 06 Jun 2015; PMS. **New tetrad.**

NN *Berberis gagnepainii* (Gagnepain's Barberry): Swaythling, SU441150; 29 Sep 2015; MWR. In hedge at edge of Riverside Park, Woodmill Lane, SU 4413 1509. (Planted). **1st for SU41.**

NN *Berberis wilsoniae* (Mrs Wilson's Barberry): Swaythling, SU441150; 29 Sep 2015; MWR. Planted in hedge at edge of Riverside Park, Woodmill Lane, SU 4415 1509. (Planted). **1st for SU41.**

NN *Betula utilis* var. *jacquemontii* (Jacquemont's Birch): Winton Rec, Winton Recreation Ground, SZ0993; 22 Jun 2015; FAW. **1st for SZ09.**

NN *Brachyglottis x jubar* (Shrub Ragwort (?*B. laxifolia* x *B. compacta*)): Tetrads SZ19F, SZ19G, SZ19H. **1st for SZ19.**

***NA *Bromus racemosus* (Smooth Brome):** Foxbury, SU299165; 19 Jun 2016; MR. A few flowering spikes in western grassy verge of gravel track. **New tetrad.**

****NA *Bromus secalinus* (Rye Brome):** Highfield Valley Gardens, SU423152; 06 Jun 2015; PMS. **New tetrad.** Widley, SU661071; 01 Aug 2015; GFa. Widley Farm, along field margin for approx 40 metres at SU661071. **New tetrad.**

NN *Buddleja globosa* (Orange-ball-tree): Upper Ratley, SU326234; 30 Jul 2015; PM. A large bush flowering at SU3266 2349. **1st for SU32.**

***NA *Butomus umbellatus* (Flowering-rush):** Burridge Recreation Ground Pond, SU517108; 01 Jul 2015; ILR. **1st for SU51.**

NA *Callitriche obtusangula* (Blunt-fruited Water-starwort): North Ripley East, path by Martins Copse, Bennetts Lane, SZ1799;

Bennetts Lane, field corner opp., path by Martins Wood from N; 16 May 2015; FAW. **1st for tetrad since 1983.**

***NA *Callitriche platycarpa* (Various-leaved Water-starwort):** Stockbridge Common Marsh, SU352336; 21 Apr 2016; MR. Shallow margins of Marshcourt River. **1st for tetrad since 1979.**

NN *Calystegia silvatica* subsp. *disjuncta* (Short-stamened Large Bindweed): Beaulieu, SU3902; 09 Jul 2016; MWR. **1st for SU30.** Exbury Gardens (SE side) (SW and NW quarters of monad only), SZ4299; 31 Jul 2016; MWR. **1st for SZ49.**

****NA *Campanula rotundifolia* (Harebell):** Dundridge Valley Meadow, Chalkpit and Woodland, SU562180; 28 Sep 2015; PJW. **New tetrad.** Ashley Manor Farm area, SZ259948; 11 Aug 2016; MWR. **New tetrad.**

***NA *Carduus tenuiflorus* (Slender Thistle):** Hengistbury Head, Hengistbury Head far end, SZ1890; 08 Jun 2015; FAW. **New tetrad.**

***NA *Carex acuta* (Slender Tufted-sedge):** Sopley Church, Ogber North, Ogber far end, SZ1596; 18 Jun 2015; FAW. **New tetrad.** Boldre, SZ319990; 20 May 2016; MR & RVHL. Ditches and hollows in pasture, SZ3191 9909, etc. **1st for SZ39.**

***NA *Carex arenaria* (Sand Sedge):** Beaulieu airfield, SU3500; 16 May 2016; MR, GCo & BMd. **New tetrad.**

***NA *Carex canescens* (White Sedge):** Foxbury main pond, SU299164; 19 Jun 2016; MR. About a dozen tufts in swampy woodland by NE of pond, SU2995 1647. **New tetrad.** Shedfield Common and Quagg End, SU564131; 27 Aug 2015; JMill. **1st for SU51 since 1880s.**

****NA *Carex divisa* (Divided Sedge):** Pylewell (shore and lake), SZ352950; 13 Aug 2016; MWR. **New tetrad.**

***NA *Carex montana* (Soft-leaved Sedge):** Furze Lodge, SU35850206; 13 Aug 2016; NAS. Heathland. **1st for tetrad since 1980.**

****NA *Carex pulicaris* (Flea Sedge):** Dunces Arch Inclosure grazing strip, SU30580925; 04 Aug 2016; NAS. Far west of grazing strip. **New tetrad.**

***NA *Carex x boeninghausiana* (*C. paniculata* x *remota*):** Lions Hill, Back Of Beyond campsite, heath, Moors River, Sharma, SU101032; 24 Apr 2015; FAW. at c101032, between lake and Moors River (specimen retained). **New tetrad.**

NA *Catapodium maritimum* (Sea Fern-grass): Cunniger Bottom area, SU191164; 13 Jul 2016; MWR. Road edge, Roger Penny Way (B3078), SU 1911 1642. **1st reliable record for SU11.**

NN *Cedrus deodara* (Deodar): Ashley Heath, SU114046; 09 Sep 2015; MWR. Planted, Horton Road, SU 1143 0467. (Planted). **1st for SU10.** Islands Thorns Inclosure, north, SU223160; 26 Apr 2016; PM. Large mature tree 25 metres tall at SU2231 1601. **1st for SU21.**

****NA *Centunculus minimus* (Chaffweed):** Parkhill Inclosure, SU324053; 28 Jul 2016; BSBI (MR). Damp area S of ride disturbed by forestry vehicles, SU3244 0533. **New tetrad.** Greenmoor, Boldre, SU334000; 21 Sep 2016; AEB. At SU33431 00065. **1st for tetrad since 1971.**

NN *Chamaecyparis pisifera* (Sawara Cypress): Brockenhurst (church area), SU304018; 20 Oct 2015; MWR. Planted in churchyard, SU 3048 0184. Probably 'Plumosa'. (Planted). **1st for SU30.** South Baddesley, SZ352967; 15 Aug 2015; MWR. Planted in churchyard hedge, SZ 3523 9674, with *Thuja plicata*. (Planted). **1st for SZ39.**

****NA *Chamaemelum nobile* (Chamomile):** Tetrads: **SU11Y, SU21D (1985), SZ19L (planted), SZ19Q.**

NN *Chenopodium giganteum* (Tree Spinach): Gibbet Firs, East Parley, track to Gibbet Firs, woods, SZ097997; 30 May 2015; FAW. SZ09718 99747. **1st for SZ09.**

****NA *Chenopodium murale* (Nettle-leaved Goosefoot):** Highbridge Community Farm, SU467211; 25 Jun 2016; MR. Weed on Community Farm plots. **1st for SU42.** Farlington Triangle, SU681048; 28 Jul 2015; JMill. **New tetrad.**

****NA *Cicendia filiformis* (Yellow Centaury):** Dunces Arch Inclosure grazing strip, SU306092; 04 Aug 2016; NAS. A few plants in short

grazed gappy sward. In far west of grazing strip. **1st for tetrad since 1986.**

***NA *Clinopodium ascendens* (Common Calamint):** Oliver's Battery, SU452270; 23 Oct 2016; MR. Single plant in hedgerow alongside gardens by track to Yew Hill. Not noted here before. **1st for tetrad since 1976.**

NA *Convallaria majalis* (Lily-of-the-valley): Hinton Admiral Station, South, Woodland S of railway, SZ206946; 21 Apr 2015; FAW. 20638 94651. **1st for SZ29.**

NN *Cornus alba* (White Dogwood): Ashford, SU139145; 15 Aug 2016; MR & GCo. (Alien). **1st for SU11.**

IN *Cortaderia selloana* (Pampas-grass): Romsey, SU352219; 02 Aug 2015; PM. Very large plant at SU3527 2195. **1st for SU32.**

NN *Corydalis ophiocarpa* (Snake-pod *Corydalis*): Green Close, SU325119; 16 Aug 2016; NAS. Appeared from seed in [NAS's] garden, last year spread into the wild on the pavement. **New vice-county record.**

NN *Corylus avellana* x *maxima* (Kentish Cobs): Between Stroud and Langrish, SU7123; 21 Mar 2016; DN & JOa. **1st for SU72.**

NN *Cosmos bipinnatus* (Mexican Aster): Romsey South-west, SU347205; 02 Aug 2015; PM. Flowering beside road near junction of A3090/A27 at SU3476 2058. **1st for SU32.** Sturt Pond, SZ295919; 27 Jul 2015; MWR. Several plants in gutter, Northfield Road, SZ 2950 9197. Grown in nearby garden. **1st for SZ29.** Woodside, SZ322941; 25 Aug 2016; MWR. (Planted). **1st for SZ39.**

NN *Cotoneaster amoenus* (Beautiful *Cotoneaster*): Waterford, Lymington, SZ333948; 08 Sep 2016; DL det. JF. On sea wall, Lymington at 33353 94829. (Introduced). **New vice-county record.**

NN *Cotoneaster dielsianus* (Diels' *Cotoneaster*): Lakewood Open Space, SZ206941; 21 Apr 2015; DL. **1st for SZ29.** Bagshot Moor, SU362004; 14 Dec 2015; HFG (EJC, JAN, MR, MWR, CCh) det. JAN, EJC. By concrete footings of old aircraft hangar, SU36324 00447. (Introduced). **1st for SU30.**

NN *Cotoneaster x suecicus* (Swedish *Cotoneaster*): Westbourne, Alum Chine, SZ0790; 23 Mar 2015; FAW. Specimen retained. **1st for SZ09.**

NN *Crataegus x media* (*C. monogyna* x *laevigata*): Stanpit, Mudeford Recreation Ground, SZ1792; 20 May 2015; FAW. **1st for SZ19.**

NN *Crocsmia paniculata* (Aunt-Eliza): Up Mead, SU145055; 29 Aug 2016; DC. A large clump by a river bridge to the north of the A31, Ringwood; SU14573 05546. Well away from houses along a restricted track used principally by anglers. (Introduced). **1st for SU10.**

NN *Crocsmia pottsii* (Pott's *Montbretia*): Exbury Gardens (SE side) (SW and NW quarters of monad only), SZ4299; 31 Jul 2016; MWR. **New vice-county record.**

NN *Crocus biflorus* (Silvery Crocus): Boscombe Pier, cliff tops east, SZ1191; 17 Feb 2015; FAW. 2 clumps c119913. (Introduced). **New vice-county record.**

NN *Crocus chrysanthus* (Golden Crocus): West Meon Churchyard, SU6324; 18 Feb 2016; DN. East Meon, SU678221; 25 Feb 2016; MR, GCo & DN. Verge of Workhouse Lane, outside cottages. (Introduced). **1st for SU62.**

NN *Crocus sieberi* (Sieber's Crocus): Bishops Waltham churchyard, SU555176; 18 Feb 2016; MR, DN, GCo & BGo. A few plants established in grass away from graves, not obviously planted. (Introduced). **1st for SU51.**

NN *Crocus tommasinianus* (Early Crocus): South Boarhunt churchyard, SU603083; 18 Feb 2016; MR, DN, GCo & BGo. Barely established from plantings. (Introduced). **1st for SU60.** Soberton, SU609168; 18 Feb 2016; MR, DN, GCo & BGo. Establishing from plantings. (Introduced). **1st for SU61.** Meonstoke, SU611201; 18 Feb 2016; MR, DN, GCo & BGo. Established in lane side and into small meadow. (Introduced). West Meon Churchyard, SU6324; 18 Feb 2016; DN. West Meon Churchyard, SU6424; 18 Feb 2016; DN. Very small patch. East Meon Churchyard, SU680222; 25 Feb



Early Crocus *Crocus tommasinianus* naturalising at Meonstoke (Martin Rand)

2016; MR, GCo & DN. Established and spreading. (Introduced). **1st for SU62.**

NN *Crocus vernus* (Spring Crocus): West Meon Churchyard, SU6324; 18 Feb 2016; DN. **NN *Crocus vernus* subsp. *albiflorus* (White-flowered Spring Crocus):** East Meon Churchyard, SU680222; 25 Feb 2016; MR, GCo & DN. Establishing in small numbers from plantings. (Introduced). **NN *Crocus vernus* subsp. *vernus* (Spring Crocus):** East Meon Churchyard, SU680222; 25 Feb 2016; MR, GCo & DN. Establishing in small numbers from plantings. (Introduced). **1st for SU62.**

NN *Crocus vernus* (Spring Crocus): Blendworth Churchyard, SU711135; 25 Feb 2016; MR, GCo & DN. Naturalising from plantings. (Introduced). **NN *Crocus vernus* subsp. *albiflorus* (White-flowered Spring Crocus):** Chalton churchyard, SU732159; 25 Feb 2016; MR, GCo & DN. Barely established from recent plantings. (Introduced). **NN *Crocus vernus* subsp. *vernus* (Spring Crocus):** Chalton churchyard, SU732159; 25 Feb 2016; MR, GCo & DN. Barely established from recent plantings. (Introduced). **1st for SU71.**

NN *Crocus x luteus* (Yellow Crocus (*C. angustifolius* x *flavus*)): Eling, SU365123; 08 Feb 2015; PM. 5 groups together in cemetery at SU3657 1239. **1st for SU31.** St Nicholas Church, South Boarhunt, SU602082; 18 Feb 2016; MR, DN, GCo & BGo. Establishing from grave planting in W extension of graveyard. (Introduced). **1st for SU60.** Soberton, SU609168; 18 Feb 2016; MR, DN, GCo & BGo. Barely establishing from grave plantings. May also include some *C. chrysanthus*. (Introduced). **1st for SU61.** West Meon Churchyard, SU6324; 18 Feb 2016; DN. **1st for SU62.**

NN *Cucurbita maxima* (Pumpkin): Lower Buckland, Undershore, Walhampton, SZ329966; 08 Jul 2016; MWR. 1 plant on manure heap in field just W of B3054, SZ 3298 9666. **New vice-county record.**

NN *Cucurbita pepo* (Marrow): Lisle Court area, SZ344959; 06 Aug 2015; MWR. 1 plant by manure heap, E of Shotts Lane, SZ 3447 9591. **1st for SZ39.**

NN *Cupressus macrocarpa* (Monterey Cypress): Eling, SU366123; 08 Feb 2015; PM. Large tree in cemetery at SU3664 1239. **1st for SU31.** Hardley (W side), SU4204; 03 Oct 2015; MWR. Planted on roundabout, A326, SU 4283 0494. (Planted). **1st for SU40.**

****NA *Cuscuta epithymum* (Dodder):** Gurnetfields Furzebrake, SU37510463; 01 Aug 2015; NAS. Parasitising *Ulex minor*. **New tetrad.**

NN *Cymbalaria hepaticifolia* (Corsican Toadflax): Hillier Gardens, SU381236; 10 Jun 2015; PM. Flowering in scree border south-east of Jermyn's House at SU3810 2369. Hillier Gardens, SU380237; 03 Jun 2015; PM. Flowering in raised bed east of Jermyn's House at SU3806 2373. **New vice-county record.**

NN *Daboecia cantabrica* (St Dabeoc's Heath): Ringwood Bottom Ford, SU26171083; 09 Jul 2016; NAS. Dry heath. **1st for SU21.**

***NA *Dactylorhiza incarnata* subsp. *pulchella* (Early Marsh-orchid):** Stonyford Pond area, SU415041; 23 Jun 2016; MWR. 1 plant in bog, SU 4159 0413. **1st for tetrad since 1956.**

NA *Dactylorhiza x transiens* (*D. fuchsii* x *maculata*): Foxbury, SU299176; 19 Jun 2016; MR. Two or three individuals in a mixed population of parents. Main characters were intermediate lip outline, straight untapering spurs. ID tentative. **1st for tetrad since 1976.**

NN *Darmera peltata* (Indian-rhubarb): The Weirs, SU485289; 26 Jul 2016; GCo. In damp walls of mill outflow. **1st for SU42.**

NN *Datura stramonium* (Thorn-apple): Old Idsworth Garden, SU742138; 30 Sep 2016; KB det. MR. Photographic evidence provided. (Introduced). **1st for SU71.**

NA *Daucus carota* subsp. *gummifer* (Sea Carrot): Sinah Common South., SZ6998; 24 May 2016; SP. Occasional. **1st for SZ69.**

****NA *Dianthus armeria* (Deptford Pink):** Wick East, Hengistbury Head, car park to Visitor Centre+harbour, SZ166910; 14 Aug 2015; FAW. visitor centre garden 16610 91072 under pergola end near visitor centre, 3 plants, specimen retained. **1st for SZ19.**

NN *Dianthus barbatus* (Sweet-William): Timsbury, SU345245; 07 May 2015; PM. In bud on rough ground at back of churchyard at SU3455 2459. **1st for SU32.**

NN *Dianthus deltoides* (Maiden Pink): Oak Tree Park, footpath N across Palmersford to caravan park, SU099017; 01 Jun 2015; FAW. Oakdene Caravan Park bridleway, 50cm x 50cm, 09985 01754, by road, photos. **1st for SU00.**

NN *Digitalis grandiflora* (Yellow Foxglove): Upham, SU540206; 20 Jun 2015; GCo. Bank outside garden, probably escape. **1st for SU52.**

***NA *Dryopteris aemula* (Hay-scented Buckler-fern):** Mark Ash, SU245066; 06 Jun 2016; AEB. About 19 plants in Mark Ash on the edge of North Oakley Inc. @ SU 24501 06686. **New tetrad.**

NN *Elaeagnus macrophylla* (Broad-leaved Oleaster): Bournemouth Lansdowne, Horseshoe Common, East side, roadsides, SZ0991; 18 Apr 2015; FAW. **1st for SZ19.**

NN *Elaeagnus x submacrophylla* (*E. macrophylla* x *pungens*): Catherington Churchyard, SU696145; 25 Feb 2016; MR, GCo & DN. Surviving in scrub on N side of church, presumed planted. (Introduced). **1st for SU61.**

****NA *Eleocharis parvula* (Dwarf Spike-rush):** Wick East, Stanpit Marsh SW, Grimmerly Marsh, harbour, Crouch Hill, SZ165918; 25 May 2015; FAW. Grimmerly Bank, in bay S of Purewell Stream, 16575 91868, many many plants. **New tetrad.**

***NA *Epilobium lanceolatum* (Spear-leaved Willowherb):** Steamer Point, SZ2093; 27 Jun 2015; DL. **New tetrad.**

NA *Epilobium palustre* (Marsh Willowherb): Meadow West of Wangfield Copse, SU517141; 22 Oct 2015; JMill. **New tetrad.**

NN *Eryngium planum* (Blue Eryngo): Smugglers Lane North, Highcliffe, SZ199945; 18 Jun 2016; DL. Highcliffe – 1 plant on pavement at N end of Smugglers Lane North at 199 945. (Introduced). **1st for SZ19.**

NN *Euphorbia amygdaloides* subsp. *robbiae* (Turkish Wood Spurge): Veal's Lane, Marchwood / Dibden, SU394093; 08 Mar 2016; MR & BMd. Escape onto road verge from neighbouring gardens. (Introduced). **1st for SU30.** Buritton, SU738203; 17 Sep 2016; SP. Single plant in hedgerow at SU738 203. **1st for SU72.**

NN *Euphorbia oblongata* (Balkan Spurge): Upper Street, Breamore, SU149184; 09 Aug 2016; RMas, MR et al. det. MR. Blatant escape into road verge from neighbouring garden, SU1499 1848. (Introduced). **1st for SU11.**

****NA *Euphrasia confusa*:** Parkhill Inclosure, SU324053; 28 Jul 2016; BSBI (MR). S side of ride. **New tetrad.** Breamore Down, SU138209; 04 Jul 2016; MR & GCo. **1st for SU12 since 1957.**

****NA *Euphrasia micrantha*:** Parkhill Inclosure, SU324053; 28 Jul 2016; BSBI (MR). N side of ride (SU3246 0536), a few small and

relatively unbranched plants. Flowers small, rich purple, plant overall lightly bronzed, lower bracts characteristic. S side of ride, a couple of plants with slightly larger flowers, mixed purple and white on same plant, rather flexuous thin branches, rather broader lower bracts and perhaps *x confusa*. **New tetrad.** W of Hardley Bridge, SU418047; 23 Jun 2016; MWR. SU 4180 0472. **New tetrad.**

NA *Euphrasia nemorosa x confusa*: Beaulieu Old Airfield, SU357004; 19 Jul 2016; MR & GCo. With parents. **1st for SU30.**

****NA *Euphrasia officinalis* subsp. *anglica* (English Eyebright):** Longdown Inclosure, SU353093; 17 Jul 2016; CC. locally abundant on mounds within flush, atypical habitat. **New tetrad.** Three Beech Bottom and Milking Pound Bottom areas, SZ296996; 22 Jul 2016; MWR. Grassy heath, SZ 2965 9963. **New tetrad.**

****NA *Euphrasia pseudokernerii*:** Windmill Hill North Central, SU718163; 15 Sep 2015; PJW. **New tetrad.** Windmill Hill South, SU721158; 09 Sep 2015; PJW. Chalton Down, SU736150; 08 Sep 2015; PJW. **New tetrad.**

***NA *Festuca rubra* subsp. *litoralis* (Red Fescue):** Hythe *Spartina* Marsh, SU433072; 30 Jul 2016; CC. **New tetrad.**

****NA *Filago vulgaris* (Common Cudweed):** SU11J, SU31M, SU32H (1936), SU51D, SZ19N, SZ19Q, SZ39N.

NN *Fraxinus angustifolia* (Narrow-leaved Ash): Freemantle, SU405121; 03 Apr 2016; HFG (JAN). Single mature tree by access track [others nearby noted by MR & GCo later in year]. (Introduced). **1st for SU41.** Hockley, SU479266; 29 Oct 2016; GCo. **1st for SU42.** Mortimers Lane, SU505189; 01 Nov 2016; GCo. (Planted). Mortimers Lane, SU510190; 01 Nov 2016; GCo. (Planted). **1st for SU51.**

NN *Fuchsia magellanica* (Fuchsia): Hythe (West Cliff Hall area), SU419083; 01 Oct 2015; MWR. By footpath by garden, behind Waterside, SU 4197 0839. **1st for SU40.**

***NA *Fumaria capreolata* (White Ramping-fumitory):** West Hurn, Smokery road to Pig Shoot Lane, SZ1196; 13 May 2015; FAW. **New tetrad.**

NN *Galanthus elwesii* (Greater Snowdrop): Catherington Churchyard, SU696145; 25 Feb 2016; MR, GCo & DN. Starting to naturalise from planting. (Introduced). **New tetrad.**

NN *Galanthus nivalis x plicatus*: New hectads: SU51, SU61, SU62.

NN *Galanthus woronowii* (Green Snowdrop): St Nicholas Church, South Boarhunt, SU602082; 18 Feb 2016; MR, DN, GCo & BGo. Numerous plants self-establishing from grave planting in W extension of graveyard. (Introduced). **1st for SU60.** West Meon Churchyard, SU639241; 18 Feb 2016; DN. SU6394 2410 Establishing well from planting on grave, in SW corner of western strip of churchyard. **1st for SU62.**

NN *Galega officinalis* (Goat's-rue): Sturt Pond, SZ296917; 27 Jul 2015; MWR. Several plants at garden wall/pavement junction, Keyhaven Road, SZ 2963 9171. Grown in adjacent garden. **1st for SZ29.**

NN *Galinsoga quadriradiata* (Shaggy Soldier): Turkey Island, Shedfield, SU567130; 30 Aug 2015; PAB. **1st for SU51 since 1988.**

NA *Galium palustre* subsp. *elongatum* (Great Marsh-bedstraw): Parkhill Lawn, SU317069; 21 Aug 2016; NAS. Pondhead, SU319071; 19 Aug 2016; NAS. Swamp. Longmead, Ipley, SU3707; 03 Jun 2016; NAS. **1st for SU30.**

****NA *Gentiana pneumonanthe* (Marsh Gentian):** Abbots Well, SU177128; 06 Sep 2016; PD det. MR. Species not in doubt but the plants have very atypical leaves and habit for British populations and closely resemble Spanish plants. Remote from any other site in the Forest but close to a car park much visited by botanists and others. An introduction is suspected. **1st for SU11.**

NN *Geranium macrorrhizum* (Rock Crane's-bill): Grange Fields – southern edge, SU457093; 11 May 2015; PAB. **1st for SU40.**

NN *Geranium phaeum* (Dusky Cranesbill): Fairmile, St Catherine's Hill, SZ1494; 11 May 2015; FAW. **1st for SZ19 since 1969.**

NN *Geranium x cantabrigiense* (Cambridge Crane's-bill (*G. macrorrhizum x dalmaticum*)): Blendworth Churchyard, SU711135; 25 Feb 2016; MR, GCo & DN. Planted on verge outside churchyard wall, spreading. (Introduced). **1st for SU71.**

****NA *Glaucium flavum* (Yellow Horned-poppay):** Hengistbury Warren Hill, top path to Head, rd through wood, +end, SZ1790; 08 Jun 2015; FAW. end towards long groyne. **New tetrad.**

****NA *Glebionis segetum* (Corn Marigold):** Parley Common South, East, W of bridleway, round solar fence, wood, SZ099989; 30 May 2015; FAW. SU09987 98947. **New tetrad.**

***NA *Glyceria notata* (Plicate Sweet-grass):** East Meon south west, SU6721; 06 Aug 2015; AHP & EJC. East Meon, 2km south east, SU6921; 30 Jul 2015; AHP & EJC. **1st for SU62 since 1969.**

NN *Gnaphalium undulatum* (Cape Cudweed): St Catherine's Hill, Christchurch, SZ143954; 15 Aug 2016; MWS conf. MR. Confirmed from set of photos supplied. (Introduced). **New vice-county record.**

****NA *Groenlandia densa* (Opposite-leaved Pondweed):** Bedhampton, SU705062; 18 Aug 2016; JAN & DRA. Mill stream, Bedhampton on the outfall from Portsmouth Water's waterworks site (SU 7055 0624). There is a nice patch 7 x 2m mixed in with the dominant *ulus penicillatus*. This 'outfall' is actually pure calcareous spring water from the waterworks. **1st for tetrad since 1990.**

NN *Gypsophila elegans* (Annual Baby's-breath): Pokesdown, Kings Park, Petersfield Rd car park and Kings Park Dr, SZ124926; 13 Jun 2015; FAW. Kings Park, var Covent Garden, opp nursery, 12418 92682. **1st for SZ19.**

***NA *Helleborus foetidus* (Stinking Hellebore):** Braishfield, west of, SU361252; 28 Oct 2015; PM. With one flowering stem developing on north side of road east of Cranford Farm at SU3610 2526. Crampmoor, SU389220; 15 Feb 2015; PM. Large flowering plant on mound of soil in field. **1st for SU32.** Tegdown Hill, SU693190; 02 Jan 2016; AHP. SU 6938 1904. Single plant, in flower, on low bank beside cart track (South Downs Way). Nearest garden 1 km. **1st for SU61.**

IN *Heracleum mantegazzianum* (Giant Hogweed): SU40U, SZ09Q, SZ19V, SZ29W.

NA *Hippocrepis comosa* (Horseshoe Vetch): Dundridge Valley Meadow, Chalkpit and Woodland, SU562180; 28 Sep 2015; PJW. **1st for SU51.** [Perhaps an introduction to this partially reseeded site – MR.]

NN *Hirschfeldia incana* (Hoary Mustard): Fishlake Meadows, SU353223; 26 Jun 2016; PM. Large plant flowering/fruiting on east side of A3057 at SU3531 2230. **1st for SU32.**

NN *Hyacinthus orientalis* (Hyacinth): Blendworth Churchyard, SU711135; 25 Feb 2016; MR, GCo & DN. One rather puny naturalised plant E of church. (Introduced). **1st for SU71.**

NN *Hypericum calycinum* (Rose-of-Sharon): The Sustainability Centre, SU676189; 26 Aug 2015; JMill. **1st for SU61.**

NN *Hypericum x inodorum* (Tall Tutsan (*H. androsaemum x hircinum*)): Blendworth Churchyard, SU711135; 25 Feb 2016; MR, GCo & DN. Planted outside E churchyard wall, small plants establishing on / below wall. (Introduced). **1st for SU71.** Chewton Common., SZ2194; 04 May 2015; FAW. by railway bridge to Woodland burial ground. Walkford, road verges, path through woods and stream, SZ2294; 04 May 2015; FAW. on railway bridge + Holly lane, 22283 94734. **1st for SZ29.**

****NA *Hypochaeris glabra* (Smooth Cat's-ear):** Hengistbury Head, SZ1690; 21 May 2016; BHep. **1st for tetrad since 1980.**

****NA *Illecebrum verticillatum* (Coral-necklace):** Fir Grove Farm South, Hurn Forest, main track, SU108004; 22 May 2015; FAW. 10865 00417, 10859 00417, huge patches 10854 00424. **New tetrad.** Track north of Beaulieu Road Station, SU34760685; 06 Aug 2016; NAS. Heathland. **New tetrad.**

NN *Impatiens parviflora* (Small Balsam): Brentry Woodland, SU380234; 06 Jul 2015; PM. Several flowering around rhododendron bushes at SU3802 2348. **1st for SU32 since 1930.**

NA *Inula conyzae* (Ploughman's-spikenard): Eight Acre Pond and Woodside Farm area, SZ3293; 03 Aug 2015; MWR. c 10-12 plants on bank behind sea wall, SZ 3280 9345. **1st for SZ39 since 1969.**

NN *Juglans regia* (Walnut): Eight Acre Pond and Woodside Farm area, SZ322937; 22 Jun 2015; MWR. 1 tree planted at junction of Ridgeway Lane and Platoff Lane, SZ 3221 9370. (Planted). **1st for SZ39.**

***NA *Lactuca virosa* (Great Lettuce):** Bournemouth Airport NE, track to Merritown Heath, SZ119986; 24 May 2015; FAW. roadside near gate to Merritown Heath, 11958 98648. Fillybrook, Airport back entrance, Industrial estate, SZ121986; 24 May 2015; FAW. 7 + plants, 12106 98631. **1st for SZ19.**

***NN *Lapsana communis* subsp. *intermedia* (Nipplewort):** Hall Lands Copse, SU499192; 03 Jun 2016; GCo. Two spikes to the north west of an introduced population. **1st for SU41.**

NN *Larix kaempferi* (Japanese Larch): Winton Recreation Ground, SZ0993; 22 Jun 2015; FAW. **1st for SZ09.**

NA *Lathraea squamaria* (Toothwort): Sailor's Lane – southern section, SU5821; 27 Mar 2016; RJC. In a regular site, under Hazel. **New tetrad.**

****NA *Lathyrus aphaca* (Yellow Vetchling):** Fairmile, SZ1494; 06 Jul 2015; FAW. Walcott Ave garden, came up weed in strawberry bed, NOT planted. **1st for SZ19 since 1953.**

NN *Laurus nobilis* (Bay): Droxford Churchyard, SU607182; 18 Feb 2016; MR, DN, GCo & BGo. Very large specimen on N edge of graveyard, presumed planted. (Introduced). **1st for SU61.** Blendworth Churchyard, SU711135; 25 Feb 2016; MR, GCo & DN. Large planted tree, some suckering at base. (Planted). **1st for SU71.**

****NA *Leersia oryzoides* (Cut-grass):** New Forest: Ober Water (SSSI), SU255039; 14 Sep 2016; FA & PBa. c.7 patches at SU25560393. Markway, Oberwater, SU256039; 14 Sep 2016; FA & PBa. 'We also saw one plant at SU25690390 – which is farther east than I've seen it there before.'

****NA *Lepidium campestre* (Field Pepperwort):** Lord's Wood Greenway Allotments, SU396159; 09 Sep 2015; JMill. **1st for SU31 since 1969.**

***NA *Lepidium heterophyllum* (Smith's Pepperwort):** East of Millers Pond, Sholing, SU451110; 14 Jun 2015; PAB. **1st for SU41 since 1969.**

NN *Leucanthemum x superbum* (Shasta Daisy): Royal Victoria Country Park, SU4607; 11 Sep 2015; MWR. Footpath by hedge, SU 4655 0737. **1st for SU40.**

***NA *Leymus arenarius* (Lyme-grass):** Hythe *Spartina* Marsh, SU433072; 30 Jul 2016; CC. one plant on chenier. **1st for SU40 since ?1930.**

NN *Lonicera pileata* (Box-leaved Honeysuckle): Lord's Hill, Southampton, SU396161; 06 Oct 2016; MR & GCo. Underplanting into woodland with *L. nitida*. (Planted). **1st for SU31.**

NN *Lonicera xylosteum* (Fly Honeysuckle): Botany Bay Road, Sholing – near stream crossing, SU453109; 04 Oct 2015; PAB. Among scrub by road but no fruits seen. **1st for SU41.**

***NA *Lotus subbiflorus* (Hairy Bird's-foot-trefoil):** Bournemouth Central, Central Gardens, SZ082914; 19 Jul 2015; FAW. SU08205 91469. **1st for tetrad since 1977.** Kings Park, Rec area, N of Athl. Stadium, to E, cemetery, verges, SZ115926; 29 May 2015; FAW. SU11553 92690. **New tetrad.** Merritown, C road to Merritown Wood, Alice in W car park, footpath, SZ118971, SZ118972; 30 Aug 2015; FAW. Hurn Court Lane, 11827 97165 +11880 97224. **New tetrad.** Week Common, Matchams Lane woods by A338, ski centre, lake, SZ130994; 27 Aug 2015; FAW. Ski centre, 13099 99433. **New tetrad.** Home Garden, Southsea, SZ663993; 08 Jun 2016; JDem. **1st for SZ69.**

***NN *Ludwigia palustris* (Hampshire-purslane):** Valley Gardens, SU424150; 06 Jun 2015; JPol. **New tetrad.**

***NA *Luzula sylvatica* (Great Wood-rush):** Leybrook Common, Avon Castle Estate South, SU1302; 07 Apr 2015; FAW. End of Egmont Close, garden weed or escape. (Introduced). **1st for SU10.**

****NA *Lycopodiella inundata* (Marsh Clubmoss):** Turf Hill Inclosure track, SU199174; 07 May 2016; CC. Specimens showing signs of maturity as well as many very small fragments. **1st for tetrad since 1957.**

IN *Lysichiton americanus* (American Skunk-cabbage): Ashley, Castleman railway to east from car park, Weston lane, SU139044; 07 Apr 2015; FAW. SU13993 04487, many plants in wet woods. **New tetrad.** Upper Ratley, SU328232; 14 Apr 2015; PM. At least 8 large flowering plants with several young non-flowering plants beside stream west of footpath at SU3288 2328. Lower Ratley, East of, SU330235; 14 Apr 2015; PM. A few flowering at edge of pond north of minor road. **1st for SU32.** Jopps Common, MacPennys woodland, SZ1998; 17 May 2015; FAW. **New tetrad.** Exbury Gardens (SW side) (NE and SE quarters of monad only), SZ4199; 31 Jul 2016; MWR. Exbury Gardens (SE side) (SW and NW quarters of monad only), SZ4299; 31 Jul 2016; MWR. **1st for SZ49.**

***NA *Medicago polymorpha* (Toothed Medick):** East Park, Flower Beds, SU420122; 10 Sep 2016; PAB. **New tetrad.**

****NA *Mentha arvensis* (Corn Mint):** Week Common, Matchams Lane woods by A338, ski centre, lake, SZ1399; 27 Aug 2015; FAW. Ski centre. **1st for SZ19 since 1969.**

NN *Mentha x piperita* var. *citrata*: Kings Park, Rec area, N of Athletics Stadium, to E, cemetery, verges, SZ1192; 29 May 2015; FAW. West Southbourne, Beaufort near school and allotments, SZ1392; 31 May 2015; FAW. **1st for SZ19.**

NN *Mimulus guttatus* (Monkeyflower): River Meon – Mislingford Section, SU586138; 29 Jul 2015; JMill. **1st for SU51.** Exbury Gardens (SW side), SZ419996; 31 Jul 2016; MWR. Stream, SZ 4196 9964, with *Lysichiton americanus* and *Sparganium erectum*. Exbury Gardens (SE side), SZ420997; 31 Jul 2016; MWR. By lake, Exbury Gardens, SZ 4208 9970. **1st for SZ49.**

****NA *Misopates orontium* (Weasel's-snout):** Bryce's Farm, Sherfield English, SU28722387; 27 Jun 2015; PW. 3 stems on edge of rape field. **New tetrad.**

****NA *Moenchia erecta* (Upright Chickweed):** Denny Lodge, SU333055; 10 May 2016; MR, BGo & BMD. Short turf of track verge at SU3333 0559. **New tetrad.**

***NA *Montia fontana* subsp. *amporitana* (Blinks):** Sopley Common, Ramsdown SE from car park, SZ1397; 13 May 2015; FAW. tracks through woods SE from car park, spec. **New tetrad.**

NA *Montia fontana* subsp. *chondrosperma* (Blinks): Winton, Stirling Road, SZ0893; 25 Mar 2015; FAW. Moordown, St Francis grounds, East Way, SZ0994; 30 Apr 2015; FAW. **1st for SZ09.**

NN *Morus alba* (White Mulberry): Milton Common, SU673010; 14 Oct 2016; IT det. MR & MDu. Confirmation from photographs provided. May be a cultivar belonging to 'Laciniata'. (Surviving). **New vice-county record.**

NA *Myosotis arvensis* var. *sylvestris*: West Wood, Farley Mount, SU418303; 09 May 2015; MR & RCR. Dumped soil by ride. **1st for SU43.**

NA *Myosotis ramosissima* (Early Forget-me-not): Beaulieu airfield, SU3500; 16 May 2016; MR, GCo & BMD. **1st for SU30 since 1969.**

***NA *Myriophyllum alterniflorum* (Alternate Water-milfoil):** Perrywood Haseley Inclosure (W side), SU322039; 04 Sep 2015; MWR. Sluggish stream, SU 3224 0393. **1st for tetrad since 1978.**

NN *Narcissus hispanicus* (Spanish Daffodil): Little Bere Copse, SU6014; 21 Apr 2016; AHP & EJC. Catherington Churchyard, SU696145; 25 Feb 2016; MR, GCo & DN. Quite widely planted and establishing. (Introduced). **1st for SU61.** Chalton churchyard, SU732159; 25 Feb 2016; MR, GCo & DN. (Introduced). Ditcham Park, SU749178; 01 Apr 2016; MR. (Introduced). **1st for SU71.**

NN *Narcissus poeticus* (Pheasant's-eye Daffodil): Timsbury North of, SU341257; 07 May 2015; PM. Small clump flowering on south side of road. **1st for SU32.**

NN *Narcissus tazetta* (Bunch-flowered Daffodil): Sopley Church, mill, river and churchyard, SZ156967; 31 Mar 2015; FAW. Sopley churchyard, 15667 96705. **1st for SZ19.**

NN *Narcissus x boutignyanus* (Boutigny's Daffodil (*N. poeticus x moschatus*)): SU30, SU41, SU61, SU70, SU71, SZ19.

NN *Narcissus x cyclazetta* (Head-to-head Daffodil (*N. tazetta x cyclamineus*)): SU10, SU42, SU51, SU61, SU71, SZ09, SZ19.

NN *Narcissus x incomparabilis* (Nonesuch Daffodil Div. II): SU10, SU30, SZ09, SZ19.

***NA *Nasturtium microphyllum* (Narrow-fruited Water-cress):** Christchurch Priory, Stanpit Marsh NW, Priory Marsh, SZ1692; 25 May 2015; FAW. **1st for SZ19 since 1989.**

NN *Nicotiana glauca* (Sweet Tobacco): Sturt Pond, SZ296916; 27 Jul 2015; MWR. 1 plant, roadside, New Lane, SZ 2968 9163. **1st for SZ29.**

NN *Nothofagus alpina* (Rauli): Spearywell Wood, SU315282; 27 Sep 2015; PM. Tall young trees on west side of footpath at SU3153 2824. **1st for SU32.**

NN *Oenothera biennis* (Common Evening-primrose): Lisle Court area, SZ344959; 06 Aug 2015; MWR. 1 plant on waste ground by manure heap, E of Shotts Lane, SZ 3448 9593. **1st for SZ39.**

?NA *Onobrychis viciifolia* (Sainfoin): Dundry Lane, SU567179; 20 Aug 2015; GCo. 1 plant. Dundry Valley Meadow, Chalkpit and Woodland, SU562180; 28 Sep 2015; PJW. **1st for SU51 since 1969.**

NA *Ononis repens* subsp. *maritima*: Goatspen Plain, SU230013; 12 Aug 2016; BSBI (MR). E verge of Station Road, SU2301 0132. **1st for SU20.**

NA *Onopordum acanthium* (Cotton Thistle): Emsworth, SU75440721; 01 Jul 2016; BF. **1st for SU70 in VC11.**

NA *Ophrys apifera* (Bee Orchid): Hatchet Moor, East Boldre, SU356009; 06 Jun 2016; TWd. **1st for SU30.**

***NA *Orobancha hederacea* (Ivy Broomrape):** Pylewell, SZ346953; 06 Aug 2015; MWR. 2 old spikes among *Hedera*, SZ 3460 9538. **New tetrad.**

NN *Oxalis incarnata* (Pale Pink-sorrel): Hythe (central), SU424078; 01 Oct 2015; MWR. By church, in churchyard, SU 4242 0788. **1st for SU40.**

***NA *Papaver lecoqii* (Yellow-juiced Poppy):** Just South of Swimming Pool Building, SU425150; 08 Jun 2016; PAB. **New tetrad.**

NN *Papaver pseudoorientale* (Oriental Poppy): E of Broughton Hill, SU313318; 24 May 2016; MR. Large individual in grassy arable margin, SU3138 3181. (Introduced). E of Broughton Hill, SU314317; 24 May 2016; MR. One medium-sized individual on arable margin, SU3144 3173. (Introduced). **1st for SU33.**

***NA *Parapholis incurva* (Curved Hard-grass):** Bitterne Manor (incl NE), SU434133; 31 Jul 2015; JMill. **1st for SU41.**

NN *Passiflora caerulea* (Blue Passionflower): Redhill, Redhill East, Redhill Ave, SZ0895; 30 Aug 2015; FAW. (Introduced). **1st for SZ09.** Stanley Park area, SZ251960; 21 Aug 2015; MWR. Hedge by footpath near houses, SZ 2510 9600. **1st for SZ29.**

****NA *Pedicularis palustris* (Marsh Lousewort):** South of Lyndhurst Hill, SU283075; 29 Aug 2016; NAS. In M29 mire. **1st for tetrad since 1979.**

NA *Persicaria amphibia* (Amphibious Bistort): Lepe (Lepe House area), SZ4498; 13 Sep 2015; MWR. Terrestrial form. **1st for SZ49.**

****NA *Persicaria minor* (Small Water-pepper):** Pondhead, SU319071; 19 Aug 2016; NAS. **New tetrad.** Mallard Wood, SU319090; 28 Jul 2016; NAS. Small population in wet glade in poached area. On flood plain. **1st for tetrad since 1976.** Ipley Verge Pond, SU380068; 24 Jul 2016; CC. **1st for tetrad since 1975.**

NN *Phacelia tanacetifolia* (Phacelia): Westbourne, Durley Chine and east cliff path, SZ0790; 06 Jun 2015; FAW. cliff top above Alum Chine. **1st for SZ09.**

NN *Phalaris aquatica* (Bulbous Canary-grass): By north side of A3024 at Freemantle, SU409121; 03 Apr 2016; HFG (JAN). Well

established in rough grass between A33 approach and railway. (Introduced). **1st for SU41.**

***NA *Pinguicula lusitanica* (Pale Butterwort):** SE of Ogdens, SU182118; 06 Jul 2016; GLo & Ecu. **1st for tetrad since 1970.** Knightwood Inclosure, SU259063; 23 Jun 2016; GLo. **New tetrad.** Dunces Arch Inclosure grazing strip, SU306092; 04 Aug 2016; NAS. A few plants in poached damp area with base rich influence. In west of grazing strip. **1st for tetrad since 1986.** Decoy Pond Farm area, SU354074; 22 Jun 2016; MWR. Bog, SU 3543 0743. **1st for tetrad since 1970.**

NN *Pinus strobus* (Weymouth Pine): Slufers Inclosure, SU231104; 13 May 2015; PM. Mature trees in plantation east of cycle track. **1st for SU31.**

***NA *Poa angustifolia* (Narrow-leaved Meadow-grass):** C50 Hambledon Road, Clanfield, SU678166; 10 Aug 2015; JMill. **1st for SU61 since 1976.**

NA *Poa compressa* (Flattened Meadow-grass): Test Valley District, SU3625; 26 May 2015; MHar. **1st for SU32.**

***NN *Polycarpon tetraphyllum* (Four-leaved Allseed):** Stanpit, SZ177920; 18 Jun 2016; DL. 1 plant on N side of pavement at 17749 92071. **New tetrad.**

NA *Polygonatum multiflorum* (Solomon's-seal): Brackenhurst Site 1, SZ288955; 03 Jun 2015; ILR. **1st localised record for SZ29.**

NN *Polygonatum x hybridum* (Garden Solomon's-seal): Sandy Down, SZ314997; 17 May 2016; MWR. Several plants on hedgebank by footpath, SZ 3140 9970. **1st for SZ39.**

***NA *Polygonum oxyspermum* subsp. *raii* (Ray's Knotgrass):** Inchmery House, Lepe, SZ438986; 09 Sep 2016; MR, AMC & BGo. Sandy strand at back of mudflats. **New tetrad.**

NN *Polypogon viridis* (Water Bent): Foxbury, SU299165; 19 Jun 2016; MR. A couple of plants in margin of gravel track near stile giving access to pond, SU2998 1651. (Introduced). **1st for SU21.**

NN *Populus nigra* 'Plantierensis': W of Spittals Farm, Fordingbridge, SU136158; 15 Aug 2016; MR & GCo. Small plantation. Too late to detect much hair on leaves and stems but outline more typical of this than 'Italica'. (Planted). **1st for SU11.**

NN *Populus x canadensis* 'Marilandica': Kings Park, Rec area, N of Athletics Stadium, to E, cemetery, verges, SZ1192; 29 May 2015; FAW. Christchurch, Wick Meadows, SZ1592; 07 May 2015; FAW. Wick Gardens. **1st for SZ19.**

NN *Potentilla indica* (Yellow-flowered Strawberry): Alumhurst, Alum Chine, SZ069905; 06 Jun 2015; FAW. branch of chine, overgrown, SU06969 90515. Bournemouth Central, Horseshoe Common, W side, pond, SZ089916; 18 Apr 2015; FAW. 08966 91660. **1st for SZ09.**

NN *Potentilla recta* (Sulphur Cinquefoil): Ashley (S side), SZ253947; 01 Aug 2015; MWR. 1 plant in roadside gutter, Brecon Close, SZ 2533 9479. **1st for SZ29.**

***NA *Potentilla x suberecta* (*P. anglica x erecta*):** Beaulieu airfield, SU3500; 16 May 2016; MR, GCo & BMd. Frequent at intervals along the S perimeter road. **1st for SU30.**

NN *Primula x pruhonicensis* (Hybrid Primrose (*P. vulgaris x juliae*)): Dibden Churchyard area, SU397084; 08 Mar 2016; MR & BMd. Planted and naturalising along ditch side, bronzy-red colouring. (Introduced). **New vice-county record.**

?NN *Prunella x intermedia* (Hybrid Self-heal (*P. laciniata x vulgaris*)): Nuffield Theatre, SU424153; 06 Jun 2015; PAB. cut grass. **1st for SU41.**

NN *Prunus cerasifera* var. *pissardii*: Near Dibden (Veal's Farm): S half of square., SU398094; 08 Mar 2016; MR & BMd. In trackside hedge. (Planted). **1st for SU30.** Meonstoke, SU610201; 18 Feb 2016; MR, DN, GCo & BGo. E side of Meon stream. (Introduced). **1st for SU62.**

NN *Prunus lusitanica* (Portugal Laurel): Land to East of Fathom's Reach, SZ716996; 28 Jul 2015; JMill. **1st for SZ79.**

NA *Prunus x fruticans* (*P. domestica* x *spinosa*): Outwick, SU149178; 31 Aug 2016; MR, GCo & AS. **1st for SU11.**

NN *Pseudofumaria alba* (Pale *Corydalis*): Lymington (centre), SZ327954; 12 Jun 2016; MWR. By house, Nelson Place, SZ 3279 9544, clearly not planted. **1st for SZ39.**

NN *Pseudofumaria lutea* (Yellow *Corydalis*): Nomansland, SU254175; 05 Apr 2016; PM. Several growing on wall and on ground beside wall at SU2547 1754. **1st for SU21.**

NN *Pyracantha coccinea* (Firethorn): S of Marsh Court, SU353331; 21 Apr 2016; MR. Planted in farm hedge, extending to SU353 328. (Planted). **1st for SU33.**

NN *Pyrus communis* (Pear): Pittleworth, SU330299; 27 Sep 2015; PM. Large mature tree approx. 12 metres tall with many fruit of varying shapes and sizes – some small and round but some pear shaped and at least 8 cm long – beside road at SU3301 2994. **1st for SU32.**

NN *Quercus rubra* (Red Oak): Marlin, Sandleheath, SU138148; 15 Aug 2016; MR & GCo. (Planted). Woodgreen, SU175174; 08 Jun 2016; MWR. Planted on Woodgreen Common, SU 1757 1749. (Planted). **1st for SU11.**

****NA *Radiola linoides* (Allseed):** Dunces Arch Inclosure grazing strip, SU305092; 04 Aug 2016; NAS. Far west of grazing strip. Dunces Arch Inclosure grazing strip, SU306092; 04 Aug 2016; NAS. With *Cicendia filiformis* in short grazed gappy sward. In far west of grazing strip. Dunces Arch Inclosure grazing strip, SU307092; 04 Aug 2016; NAS. Marshy grassland. **1st localised records for tetrad.** Lyndhurst (Beaulieu Road area), SU317074; 28 Jun 2016; MWR. Heath, SU 3176 0749, with *Chamaemelum nobile*. **1st localised record for tetrad.** Between Parkhill and Denny Inclosures, SU324059; 28 Jul 2016; BSBI (MR). In damp disturbed ground S of main track. **New tetrad.**

***NA *Ranunculus parviflorus* (Small-flowered Buttercup):** Woodgreen, SU170176; 08 Jun 2016; MWR. SU 1706 1768. **1st for SU11.** Southampton university grounds, SU4251530 06 Jun 2015; PAB. quite rare in Southampton. **New tetrad.**

***NA *Ranunculus x novae-forestae* (New Forest Crowfoot):** Parkhill Lawn, SU317069; 21 Aug 2016; NAS. The Ridge, Lyndhurst, SU313076; 18 Aug 2016; NAS. **New tetrad.** Wootton Bridge and Bradley Inclosure area, SZ256996; 16 May 2016; MWR. Rather sparse, wet ditch, SZ 2561 9968, with *Callitriche stagnalis*. R. omiophyllus in vicinity. **1st for tetrad since 1956.** East End, SZ368975; 27 Apr 2016; MWR. Wet ditch near St Leonards Road, SZ 3689 9759, with *Apium inundatum*. **1st for tetrad since 1984.**

NN *Raphanus sativus* (Garden Radish): S of Sturt Pond, SZ299909; 04 Aug 2015; MWR. 2 plants, cultivation relic at field edge, New Lane, SZ 2991 9099, with *Sinapis alba*. **1st for SZ29.**

NN *Rapistrum rugosum* (Bastard Cabbage): Milford on Sea (S side), SZ285915; 30 Aug 2015; MWR. Disturbed soil on clifftop, SZ 2854 9157, presumed sown (with *Centaurea cyanus*, etc). **1st localised record for SZ29.**

NN *Rhododendron luteum* (Yellow Azalea): Lodge Hill, SU6012; 09 Jun 2016; AHP & EJC. **1st for SU61.**

****NA *Rhynchospora alba* (White Beak-sedge):** SU11X, SU21A, SU21B, SU21C, SU30L, SU30R.

NA *Rosa agrestis* x *canina* (*Rosa* x *belnensis* (f x m)): MizMaze Hill, SU142202; 09 Aug 2016; RMas, MR et al. det. RMas. Hedgerow, SU1428 2025, Voucher Hb. MR. **1st for SU12.**

NA *Rosa arvensis* x *canina* (*Rosa* x *irregularis* (f x m)): Stuckton, SU160131; 08 Aug 2016; RMas. Lane hedges. Ditchend Brook, SU161131; 11 Aug 2016; RMas, MR et al. det. RMas. N side of lane 90m W of cattle grid. **1st for SU11.**

NA *Rosa micrantha* x *rubiginosa* (*Rosa* x *bigenensis* (f x m)): Beaulieu Heath, SU359004; 10 Aug 2016; RMas, MR et al. det. RMas. At SU3590 0042. Voucher Hb. MR. Beaulieu Old Airfield, NE, SU351013; 10 Aug 2016; RMas, MR et al. det. RMas. At SU3519 0131. Voucher Hb. MR. **1st for SU30.**

NA *Rosa obtusifolia* x *canina* (*Rosa* x *dumetorum*): Beaulieu Old Airfield, SU346012; 10 Aug 2016; RMas, MR et al. det. RMas. At SU3462 0122. R. obtusifolia (f) x canina (m). Bagshot Moor, SU361004; 10 Aug 2016; RMas, MR et al. det. RMas. At SU3619 0046. **1st for SU30.**

NN *Rosa rugosa* (Japanese Rose): Handy Cross area, SU209076; 19 Sep 2015; MWR. Several small plants by A31, SU 2096 0767. **1st for SU20 since 1988.**

NA *Rosa stylosa* x *canina* (*Rosa* x *andegavensis* (f x m)): N of Holmsley Station, SU231009; 12 Aug 2016; RMas, MR et al. det. RMas. By bridge over stream, SU2318 0092. **1st for tetrad since 1975.** Beaulieu Old Airfield, SU346012; 10 Aug 2016; RMas, MR et al. det. RMas. Beaulieu Airfield, SU350016; 10 Aug 2016; RMas, MR et al. det. RMas. Hawkhill, SU350017; 10 Aug 2016; RMas, MR et al. det. RMas. At SU3502 0171. New Forest, Hatchet Moor, SU355012; 10 Aug 2016; RMas, MR et al. det. RMas. At SU3553 0129. Beaulieu Heath, SU361005; 10 Aug 2016; RMas, MR et al. det. RMas. **1st for SU30.**

NA *Rosa tomentosa* x *canina* (*Rosa* x *scabriuscula* (f x m)): Beaulieu Aerodrome, SU351010; 10 Aug 2016; RMas, MR et al. det. RMas. At SU3517 0100. **1st for SU30.**

NA *Rosa x dumalis* (*Rosa caesia* x *canina*) all det. RMas: **SU11, SU12, SU20, SU30, SZ29.**

NA *Rosa x dumetorum* (*Rosa canina* x *obtusifolia* (f x m or m x f)): Deadman Hill, SU196163; 11 Aug 2016; RMas, MR et al. det. RMas. At SU1962 1633. Cunniger Bottom, nr. Deadman Hill, SU196164; 11 Aug 2016; RMas, MR et al. det. RMas. **1st for SU11.**

NA *Rosa x irregularis* (*Rosa arvensis* x *canina* (f x m or m x f)): Hoe gate, south east, SU6312; 03 Sep 2015; AHP & EJC. **1st for SU61.**

NA *Rosa x toddiae* (*Rosa canina* x *micrantha* (f x m or m x f)): North Park, Avon Forest Park, SU121027; 11 Aug 2016; RMas, MR et al. det. RMas. At SU1214 0277. North Park, Avon Forest Park, SU122028; 11 Aug 2016; RMas, MR et al. det. RMas. At SU1223 0284. **1st for SU10.**

NN *Rubus tricolor* (Chinese Bramble): Exbury Gardens (SE side) (SW and NW quarters of monad only), SZ4299; 31 Jul 2016; MWR. **1st for SZ49.**

NN *Rudbeckia hirta* (Black-eyed-Susan): Pennington (W side), SZ306941; 28 Aug 2015; MWR. 2 plants in dense *Equisetum telmateia* (but where 'wildflower' seed was sown in 2014), Milford Road (A337), SZ 3061 9410. **1st for SZ39.**

NN *Rumex sanguineus* var. *sanguineus* (Red Wood Dock): Galley Hill area, SZ316972; 10 May 2016; MWR. Var. *sanguineus*. Several plants on roadside near garden, A337, SZ 3168 9727. **1st for SZ39.**

NA *Salix x multinervis* (*S. aurita* x *cinerea*): Duck Hole area, SU253024; 07 Jul 2016; MWR. Near stream, Duckhole Bog, SU 2534 0241. S. aurita nearby. **1st for SU20.**

****NA *Salvia verbenaca* (Wild Clary):** Nelson Lane, Ports Down, SU611069; Jun 2016; JSt. Thriving, SU 61167 06980. **1st for tetrad since 1985.**

NN *Saxifraga cymbalaria* (Celandine Saxifrage): Hillier Gardens, SU379237; 03 Jun 2015; PM. Several flowering plants spreading along path between the Bog Garden and Jermyn's House. Hillier Gardens, SU379238; 03 Jun 2015; PM. Several flowering plants spreading along path at the Bog Garden. Hillier Gardens, SU380237; 18 Jun 2015; PM. Abundant along edge of border beside lawn west of Jermyn's House. **1st for SU32.**

***NA *Saxifraga tridactylites* (Rue-leaved Saxifrage):** Sway (Durns Town), SZ284991; 01 May 2016; MWR. Frequent single plants. **1st for SZ29.**

NN *Scilla luciliae* (Boissier's Glory-of-the-snow): Polygon, SU4112; 03 Apr 2016; HFG (JAN). N side of A33, SU41121. (Introduced). **New vice-county record.**

****NA *Scleranthus annuus* (Annual Knawel):** Hiltingbury Recreation ground, SU430222; 05 May 2016; MR & BGo. On well-

trodden ground by football pitch, SU4300 2226. C. 40 plants noted, may be more. Hiltingbury Recreation Ground, SU431221; 05 May 2016; MR & BGo. On bank between The Hilt and scout hut, SU4319 2217. A few plants. **New tetrad.**



Annual Knawel *Scleranthus annuus* at Hiltingbury Recreation ground (Martin Rand)

NA *Sedum album* (White Stonecrop): Catherington Churchyard, SU696145; 25 Feb 2016; MR, GCo & DN. Naturalising on graves with chippings. (Introduced). **1st for SU61.**

***NA *Sedum anglicum* (English Stonecrop):** Avon Heath CP Visitor Centre, car park, Barnsfield, SU1202; 17 Aug 2015; FAW. **1st for SU10.** Petersfield East Central (VC11 part), SU753231; 03 Jun 2016; SP. Occasional near houses along Heath Road at SU753 231. **1st for SU72.**

NN *Sedum rupestre* (Reflexed Stonecrop): Hythe Road, Dibden, SU395087; 08 Mar 2016; MR & BMD. (Introduced). **1st for SU30.**

NN *Sedum spurium* (Caucasian-stonecrop): Blendworth Churchyard, SU711135; 25 Feb 2016; MR, GCo & DN. Established on lane verge outside churchyard wall. (Introduced). **1st for SU71.**

NN *Selaginella kraussiana* (Krauss's Clubmoss): Hall Lands Cottage, SU499191; 16 Jul 2016; GCo. In path, burnt patch. **1st for SU41.**

NN *Sempervivum tectorum* (House-leek): Hatchet Green, Hale, SU1919; 23 Oct 2016; DC. About half a dozen in gutter of corrugated asbestos farm building, Hale, SU1919, plus original nearby... It is thriving, despite being untended since then. But somehow seeds have journeyed across the 15ft wide pathway to this other building and settled into the silt of the gutter. (Established). **1st for SU11.** Between Stroud and Langrish, SU710239; 21 Mar 2016; DN & JOa. SU7105523978 surviving on wall S side of A272 E of Langrish. **1st for SU72.**

NN *Senecio inaequidens* (Narrow-leaved Ragwort): Abbotswood, SU368231; 06 Jul 2015; PM. Flowering at SU3683 2313. **1st for SU32.**

NN *Sequoia sempervirens* (Coastal Redwood): Denny Lodge Inclosure (E side), SU343047; 27 May 2016; MWR. Planted in wood (Denny Lodge Inclosure), SU 3433 0475. (Planted). **1st for SU30.**

NN *Sequoiadendron giganteum* (Wellingtonia): Redhills Copse, E Tytherley, SU302302; 24 May 2016; MR. (Planted). **1st for SU33.**

NN *Silene coeli-rosa* (Rose-of-heaven): Muscliff, Granby Road area, riverside path south first part, SZ0995; 06 Jul 2015; FAW. (Planted). **1st for SZ09.**

NN *Silene schafta* (Caucasian Campion): Rockbourne village; SU114183; 23 Oct 2016; DC. Half a dozen naturalised... atop old brick wall by path leading up to Rockbourne Church, SU1143 1830; one fresh flower, others wilting or gone to seed. (Alien). **New vice-county record.**

NA *Silene x hampeana* (Pink Campion (*S. dioica* x *latifolia*)): Stoney Cross Plain, SU254115; 09 Jun 2016; PM. Flowering in central reservation of A31. **1st for SU21.**

NN *Sisyrinchium striatum* (Pale Yellow-eyed-grass): Kings Park, Rec area, N of Athl. Stadium, to E, cemetery, verges, SZ1192; 29 May 2015; FAW. **1st for SZ19.**

NN *Sorbaria sorbifolia* (Sorbaria): South Gorley, SU1510; 19 May 2015; DHu. **1st for SU11.**

NN *Sorbus latifolia* (Broad-leaved Whitebeam): Hilltop House area, SU399030; 31 May 2016; MWR. Planted at edge of wood by road, Beaulieu Road, (B3054), SU 3997 0308. (Planted). **New vice-county record.**

***NA *Sorbus torminalis* (Wild Service-tree):** Clayhill Heath, SU302060; 23 Aug 2016; NAS. Wood-pasture. **New tetrad.** Parkhill Inclosure, SU324053; 10 May 2016; MR, BGo & BMD. W of ride junction, SU3244 0534. W end of Denny Wood, SU329058; 10 May 2016; MR, BGo & BMD. By ride junction, SU3299 0587. **1st for tetrad since 1984.** Fields Heath, SU453022; 30 Jul 2016; MWR. 2 trees in hedge by track, SU 4531 0225, probably planted. **New tetrad.** Denmead, north west., SU6512; 01 Oct 2015; AHP & EJC. Frequent on old woodbank from SU65111282 to SU65221257. Also in hedge at SU65881240. **1st for tetrad since 1970.** Brackenhurst Site 1, SZ288955; 03 Jun 2015; ILR. (Introduced). **New tetrad.**

NN *Sorbus x liljeforsii* (*S. aucuparia* x *intermedia*): Twyford Reservoir, SU492242; 28 Oct 2015; PJW. **1st for SU42.**

***NA *Spartina x townsendii* (*S. alterniflora* x *maritima*):** Bury Marsh, Eling, SU3711; 03 Aug 2015; MR & CC. Scattered and mostly along lower fringes of saltmarsh. Bury Marsh, Marchwood, SU3811; 03 Aug 2015; MR & CC. **1st localised and distinguished as sterile hybrid for SU41 for at least 40 years.** Hengistbury Warren Hill, top path to Head, rd through wood, +end, SZ1790; 08 Jun 2015; FAW. saltmarsh. **1st for SZ19.**

NA *Spergularia marina* (Lesser Sea-spurrey): Embley Park, East of, SU339200; 16 Aug 2015; PM. Flowering/fruiting at edge of road at SU339200. Romsey Bus Station, SU35322109; 20 Aug 2015; CC. Very vigorous plants beneath 3 basket posts. No other 'halophytes' present. **1st for SU32.**

***NA *Spirodela polyrhiza* (Greater Duckweed):** Pond east of B3354, Fair Oak, SU492191; 26 Jun 2015; PAB. **New tetrad.**

NA *Stachys x ambigua* (Hybrid Woundwort (*S. palustris* x *sylvatica*)): Little Bere Copse, SU6014; 12 Jul 2016; AHP. **1st for SU61 since 1951.**

***NN *Stratiotes aloides* (Water-soldier):** Barton Golf Course, SZ258930; 09 Oct 2016; DC. There must be at least 50 of them in clear water, in good un-nibbled-at condition, the larger ones bearing several offsets each. (Established). Milford on Sea (S side), SZ288918; 30 Aug 2015; MWR. Pond, SZ 2885 9180, evidently planted (with *Ceratophyllum demersum*). (Planted). **1st for SZ29.**

NN *Symphytum caucasicum* (Caucasian Comfrey): North Ripley, bridleways, lanes, copses, SZ1699; 10 Jun 2015; FAW. on S side of bridleway, c164990, specimen retained. **1st for SZ19.**

NN *Symphytum grandiflorum* (Creeping Comfrey): Lower Toothill, SU376183; 13 Mar 2016; PM. Flowering over one square metre on north side of Toothill Road at SU3763 1838. **1st for SU31.**

NN *Symphytum x hidcotense* 'Hidcote Blue' (Hidcote Comfrey): Houghton, SU342323; 21 Apr 2016; MR. (Introduced). **1st for SU33.** Burton, around green, churchyard, chapel, playing field, SZ1694; 12 May 2015; FAW. **1st for SZ19.**

NN *Tellima grandiflora* (Fringecups): Leybrook Common, Avon Castle Estate South, SU136029; 07 Apr 2015; FAW. not near gardens, trackside, 13689 02923. **1st for SU10.**

NA *Thymus pulegioides* (Large Thyme): Linford Bottom, SU184074; 30 Oct 2016; MR. Spotted by several people during BBS Southern Group meeting. **1st localised record for SU10, 1st for SU10 since 1955.**

NN *Tilia platyphyllos* (Large-leaved Lime): Merritown, C road to Merritown Wood, Alice in W car park, footpath, SZ1197; 13 May 2015; FAW. C road opp airport and footpath, ssp *platyphyllos*. Burton, B3347 verges, Avon Meadows east, SZ1694; 21 Aug 2015; FAW. fpath off B3347 to meadows at 1600 9460 + stream E of road. (Planted). **1st for SZ19.** W of Lepe (Inchmery House area), SZ4398; 15 Sep 2015; MWR. At edge of field near road, Inchmery Lane, SZ 4367 9875. (Planted). **1st for SZ49.**

NN *Tilia x euchlora* (Caucasian Lime (*T. cordata* x *dasystyla*)): Woodgreen, SU171176; 08 Jun 2016; MWR. Planted at edge of small roadside copse, SU 1719 1766. (Planted). **1st for SU11.**

****NA *Torilis arvensis* (Spreading Hedge-parsley):** Chalton Down, SU736150; 08 Sep 2015; PJW. **1st for tetrad since 1960.**

***NA *Torilis nodosa* (Knotted Hedge-parsley):** Beaulieu, SU388022; 09 Jul 2016; MWR. Abundant on roadside, SU 3884 0223. **1st for SU30.** Pennington (North), SZ313958; 01 Jul 2016; MWR. Urban roadside, Cowley Road, SZ 3132 9586. **New tetrad.**

NN *Trachystemon orientalis* (Abraham-Isaac-Jacob): S Stoneham churchyard, W end, SU439153; 23 Mar 2016; DL. well-naturalised in W corner of St Mary's churchyard, South Stoneham, Swaythling by two old graves at 440 153 [GR corrected to SU439153 by MR]. (Introduced). **1st for SU41.**

NA *Tragopogon porrifolius* (Salsify): West Southbourne, Beaufort near school and allotments, SZ1392; 31 May 2015; FAW. **1st for SZ19.**

***NA *Trifolium glomeratum* (Clustered Clover):** Winton Rec, Pine Rd Rec, Stokewood Rd, SZ090939; 22 Jun 2015; FAW. Pine Rd Rec, 090939, on main hill, large patch 09083 93944. **New tetrad.** Kings Park, Rec area, N of Athl. Stadium, to E, cemetery verges, SZ115927; 29 May 2015; FAW. 11524 92712. **New tetrad.** Pokesdown, Kings Park, Petersfield Rd car park and Kings Park Dr, SZ121928; 13 Jun 2015; FAW. Kings Park, 12147 92872, IN playing field, near gap betw Tilias. **New tetrad.**

NN *Tristagma uniflorum* (Spring Starflower): Westbourne, Durley Chine and east cliff path, SZ0790; 23 Mar 2015; FAW. Durley Chine top and down steps. **1st for SZ09.**

NN *Tsuga heterophylla* (Western Hemlock-spruce): Southwick, SU6309; 07 Aug 2016; GFA. Place Wood/Assell's Row. **1st for SU60.**

NN *Tulipa gesneriana* (Garden Tulip): Hurn Forest North, Hurn Forest, main track and rides, MOD boundary, SU1100; 22 May 2015; FAW. by grass field (112006) and triangle (111008). **1st for SU10.**

***NA *Urtica dioica* subsp. *galeopsifolia* (Stingless Nettle):** S of Harbridge, SU146096; 22 Aug 2016; MR & GCo. **1st for SU10.** Bournemouth Central, Central Gardens, SZ0891; 19 Jul 2015; FAW. Parley Court South, Stour Valley N, Muscliff Riverside S, SZ0996; 21 Aug 2015; FAW. **1st for SZ09.**

NN *Veronica salicifolia* (Koromiko): Bushfield Camp Entrance, SU469270; 13 Oct 2016; MR & GCo. Single bush on E side of entrance behind gate. (Introduced). **1st for SU42.**

****NA *Veronica scutellata* var. *villosa* (Marsh Speedwell):** Moorgreen Meadows, SU485145; 25 May 2016; MR & GCo. Wet meadow, SU4854 1455. **1st for SU41.**

NA *Viburnum lantana* (Wayfaring-tree): Burley (Clay Hill area), SU233022; 29 May 2016; MWR. Bush by track, SU 2339 0229. **1st for SU20.**

NN *Viburnum rhytidophyllum* (Wrinkled Viburnum): Hooper's Bottom, Kings Somborne, SU355338; 21 Apr 2016; MR. (Planted). **1st for SU33.**

NN *Viburnum x rhytidophylloides* (*V. lantana* x *rhytidophyllum*): Warnford area., SU624232; 18 Feb 2016; MR, DN, GCo & BGo. Large bush planted at W corner of recreation ground. (Planted). **1st for SU62.**

***NA *Vicia tenuifolia* (Fine-leaved Vetch):** Southampton Gen Hosp, bank by eye unit, SU399148; 10 Oct 2016; GTo. Two clumps c.45cm, one c.30cm dia, In short well-drained grassland on a steep bank by vehicle ramp. **1st for SU41.**

***Vicia villosa* (Fodder Vetch):** Durley, SU5116; 24 Jun 2016; GCo. **1st for SU51.**

NN *Vinca minor* (Lesser Periwinkle): Dibden / Marchwood, SU3808; 08 Mar 2016; MR & BMd. (Introduced). **1st for SU30 since 1969.**

NA *Viola odorata* var. *dumetorum*: Upham, SU539201; 17 Mar 2016; MR & RCR. Lane bank. **1st for SU52.**

NN *Viola odorata* var. *praecox*: South Boarhunt, St Nicholas Church, SU603082; 18 Feb 2016; MR, DN, GCo & BGo. (Introduced). **1st for SU60.**

***NA *Viola riviniana* x *lactea*:** Beaulieu Old Airfield, SU356004; 16 May 2016; MR, GCo & BMd. At SU3569 0040. **New tetrad.**

****NA *Viola tricolor* (Wild Pansy):** Moordown St Johns, East, Redhill Ave, Redhill Park south, SZ0894; 30 Aug 2015; FAW. **New tetrad.** Purewell, Scotts Hill Lane, corner of Purewell Cross Rd, SZ166932; 14 Aug 2015; FAW. 16680 93205. **New tetrad.**

NA *Vulpia myuros* (Rat's-tail Fescue): Lepe (Lepe House area), SZ4498; 13 Sep 2015; MWR. **1st for SZ49.**

NN *X Cuprocyparis leylandii* (Leyland Cypress): Parkhill Inclosure, SU325054; 28 Jul 2016; BSBI (MR). (Introduced). **1st for SU30.** Ditcham Park, SU749178; 01 Apr 2016; MR. (Planted). **1st for SU71.**

****NA *Zostera noltei* (Dwarf Eelgrass):** Calshot Spit, SU488025; 11 Jan 2015; CC. **New tetrad.**

VC12 Records

Compiled by Tony Mundell (10 Nov 2016)

Once again here is a set of my personal selections from the records received recently. As usual I have tended to select the scarcer native species with a sprinkling of interesting aliens. I would far prefer to include YOUR records rather than my own but inevitably the records selected here are greatly influenced by the number of records each person contributes.

In all earlier issues I have omitted the 'SU' from grid references to save space, but as *Flora News* is now mainly distributed electronically space is much less of an issue so I have decided to retain the full grid reference.

As always I remind you that inclusion of a record does not imply that there is public access, as some of these records were obtained during surveys at the owner's invitation, particularly the named farms.

Andrew Leonard has continued his programme of checking formerly recorded sites for numerous species of ferns. He has submitted so many updated and new fern records that I can only include a few samples here.

The distribution map of *Arctium lappa* Greater Burdock in the *New Atlas* for records up to 2000 seems to show that it is scarcer in VC12 than in all neighbouring vice-counties. I still regard it as an uncommon plant though

many extra sites have been found in the last 15 years and a few records are included below. There is also a record below for *A. minus* subsp. *pubens* Lesser Burdock which I am sure is under-recorded (partly because it was not listed separately from *A. minus* in the second edition of 'Stace', 1997), and the same under-recording may be true of *A. nemorosum* Wood Burdock, so please look for them both. The new *Hybrid Flora of the British Isles* gives a description of the hybrid *A. lappa* x *A. minus* and points out that *A. minus* subsp. *pubens* may be derived from this same hybrid.

In *Flora News* No.51, Autumn 2016, I mentioned how Chris Hall had found *Catapodium marinum* Sea Fern-grass, new to VC12. It was growing with other 'seaside' species like *Cochlearia danica* Danish Scurvy-grass, *Puccinellia distans* Reflexed Saltmarsh-grass and *Spergularia marina* Lesser Sea-spurrey. I knew of another road verge locally with those same three halophyte species that depend on the use of salt on roads in winter. When I visited this extra site there was also the predicted *Catapodium marinum*.

One of the more interesting alien plants listed here is *Nonea lutea* Yellow Nonea found at Northington. Unfortunately, the plant found had had its top mown off but it was clearly in the Borage family. A voucher piece was collected and the nutlets had a collar-like ring around the base, so it keyed in *Flora Europaea* to *Nonea*.

Less welcome is the abundance of the highly invasive *Hydrocotyle ranunculoides* Floating Pennywort beside Wyndhams Pool at Yateley Country Park. I heard that that the park rangers have known about it for a long time and have previously tried to eradicate it. Apparently another attempt is planned. I wish them luck but suspect that it is now too late to completely eradicate it.

On a more positive note, the recent record that delighted me most was the very last one listed below; a large colony of *Wahlenbergia hederacea* Ivy-leaved Bellflower, found first by Ian Ralphs, though when Chris Hall checked it out it was realised to be much more extensive.

You would not expect *Arrhenatherum elatius* False Oat Grass to feature here as it is so common – but see Anna Stewart's record below. The specimen baffled both me and Martin Rand.

HFG = Hampshire Flora Group

***Aconitum napellus* subsp. *napellus* (Monk's-hood)** Vinney Copse SU7358 4551 by roadside, the native subspecies but probably a garden discard here, Tony Mundell, Isobel Girvan, Mike Harrison & Anna Stewart, 27 Jul 2016.

***Agrimonia procera* (Fragrant Agrimony)** Beside path in field at St Mary Bourne SU4268 5057. Large plant with lower spines on fruit curved down and only partly grooved, Peter Billingham 12 Sep 2016.

***Agrostemma githago* (Corncockle)** On recently rotavated area beside bridge over M3 at Fleet SU8146 5616 to SU8149 5612, presumably sown by local council, Tony Mundell 5 Jul 2016.

***Agrostis canina* (Velvet Bent)** Occasional at Hook Common, e.g. patches in wet depressions at SU7162 5338, SU7159 5318 and in SU7253, HFG 14 Aug 2016.

***Agrostis gigantea* (Black Bent)** Along footpath, N of Sherfield on Loddon SU689594, Adam Lucas 4 Aug 2016. N of Plastow Green SU537623, several plants, voucher specimen confirmed by Tony Mundell, Sarah Ball & Sarah White 5 Aug 2016. Tidgrove Warren Farm SU5187 5429, Sarah Ball & Sarah White 22 Aug 2016. SW of Ramsdell SU5763 5626 on footpath between fields, Sarah Ball & Sarah White 23 Aug 2016.

***Agrostis vinealis* (Brown Bent)** Heckfield SU719614 beside footpath, Tony Mundell & Peter Scott 3 Aug 2016. Positively identified at Hook Common SU7222 5338 but probably overlooked elsewhere on the site, HFG 14 Aug 2016.

***Althaea officinalis* (Marsh Mallow)** Hundreds of plants are present at Chineham Business Park SU6494 5466 where first noted in 2007 and are still there in abundance, Adam Lucas 23 Aug 2016. It is known that they were sown as 'wildflowers'.

***Anacamptis pyramidalis* (Pyramidal Orchid)** Dobbs Field, Chilbolton, West Down SU3877 3897, Glynne Evans 24 Jun 2016. S of Sydmonton SU4888 5695, Graeme Down 26 Jun 2016. Easton Waterworks SU5022 3215, set aside agricultural land beside M3, Charlotte Smith 26 Jun 2016. Andover SU4686 3224, four spikes seen whilst turning into Harestock road (from Andover Road, southbound), Lizzy Peat 28 Jun 2016. SW of Ecchinswell SU4857 5885, Graeme Down 2 Jul 2016. Several plants on verge at Selborne SU7441 3307, Steve Povey 7 Jul 2016. A plant with white flowers in grassland south of Woodbury Road, Hatch Warren SU607487, Paul Beevers 8 Jul 2016. Red Post Lane, Weyhill SU31914615, counted 63 spikes along the road verge, one patch contained around 40, Purgie Linham 17 Jul 2016. Two spikes, Goch / Redon Roundabout verge, Andover SU356467, Graeme Davis.

***Anagallis arvensis* subsp. *arvensis* f. *carnea* (Scarlet Pimpernel – pink form)** Pale pink form in Wildmoor Lane, Sherfield on Loddon SU6760 5649 just outside entrance to garden centre, Tony Mundell 27 Jun 2016.

***Anagallis arvensis* subsp. *arvensis* f. *lilacina* (Scarlet Pimpernel – purple form)** S of St Mary Bourne SU4251 4992 with purple flowers, Tony Mundell, Ginnie Copsey & Mary Parker 13 Jul 2016.

***Anchusa arvensis* (Bugloss)** Two plants at Heckfield SU7153 6080 on arable field edge, Tony Mundell & Peter Scott 3 Aug 2016. Frequent as weed on Sheet Allotments SU758247, Steve Povey 1 Sep 2016.

***Anisantha diandra* (Great Brome)** At Woodmancott SU5663 4240 on arable field edge, Tony Mundell & Gareth Knass 19 Jul 2016. At Whitchurch SU4662 4717, adjacent to arable field at top of the wooded lane, Simon Melville, Mary Parker, Anna Stewart & Ginnie Copsey 24 Aug 2016, specimen confirmed by Tony Mundell.

***Anthemis cotula* (Stinking Chamomile)** Solitary plant on verge along Grammarham Lane, Farleigh Wallop SU634466, Geoffrey Farwell 25 Jun 2016. Lasham Hill Farm SU663428, two patches along edge of wheat field Geoffrey Farwell 9 Jul 2016. SW of Micheldever SU505370, in field corner, very narrow linear scales on receptacle, achenes warty with no oil glands, Tony Mundell, Steve Povey, Mary Parker & Ginnie Copsey 17 Aug 2016. SW of Ramsdell SU575565, under field hedge, Sarah Ball & Sarah White 23 Aug 2016.

***Anthemis tinctoria* (Yellow Chamomile)** At Woodmancott SU5657 4273 in area of dumped soil and rubbish, Tony Mundell & Gareth Knass 19 Jul 2016.

***Arctium lappa* (Greater Burdock)** The Mill Field LNR SU663535, Basingstoke BioBlitz, Adam Lucas 31 Jul 2016. On road verge at Sherfield on Loddon SU6741 5899 and a single plant at Bramley Green SU6764 5917 in a grassy field, both Tony Mundell & Adam Lucas 4 Aug 2016. N of Sherfield on Loddon SU6828 5935, two plants growing in field, under oak, Adam Lucas 4 Aug 2016.

***Arctium minus* subsp. *pubens* (Lesser Burdock)** Rare at Combe Hole SU5119 5701, a few plants, voucher piece collected, Tony Mundell, Sarah Ball & Sarah White, 2 Aug 2016.

***Arrhenatherum elatius* (False Oat-grass)** A curious completely awnless form. A clump with eight panicles in a garden lawn in Palm

Hall Close, Winchester SU490293, Anna Stewart 15 Jul 2016, determined independently by Dr Tom Cope, Eric Clement and John Poland. Tom Cope wrote '... specimen is *Arrhenatherum elatius*, but it is probably one of the oddest specimens I have seen....I do not recall ever seeing a completely awnless specimen before'. Eric Clement pointed out that it breaks the generic description of the flowers – but vegetatively it keys out correctly.

***Asplenium adiantum-nigrum* (Black Spleenwort)** A large number of former sites all over VC12 for this and other ferns has been checked by Andrew Leonard in 2016 (and some new sites found). There are too many to list here but Andrew recorded them all with precise 8-figure grid references.

***Asplenium ceterach* (Rustyback)** A large number of former sites all over VC12 for this and other ferns has been checked by Andrew Leonard in 2016 (and some new sites found). There are too many to list here but Andrew recorded them all with precise 8-figure grid references.

***Astrantia major* (Astrantia)** Single plant on Noar Hill at SU7425 3189, Tony James 19 Jul 2016, determined Steve Povey from a photo.

***Bidens cernua* (Nodding Bur-marigold)** Andover, Anton Lakes SU361466, four or five plants clumped together at edge of pond, Graeme Davis 29 Aug 2016.

***Bidens tripartita* (Trifid Bur-marigold)** Kingsley Pond SU7949 3886, Tony Mundell 8 Jul 2016.

***Borago officinalis* (Borage)** NW of Preston Candover SU5819 4267, in arable field beside footpath, sown in a seed mix to attract game, Tony Mundell, Gareth Knass & Mike Harrison 23 Aug 2016. At Bramley SU6587 5880 beside footpath, both blue and pink flowers, Adam Lucas 27 Aug 2016.

***Briza maxima* (Greater Quaking-grass)** Several plants on road verge at Sherfield on Loddon SU6776 5833, Tony Mundell & Adam Lucas 4 Aug 2016. Pavement weed at Elvetham Heath Estate SU8049 5535, Tony Mundell 21 Sep 2016.

***Buxus sempervirens* (Box)** Beside track at Hoddington SU7007 4759, Tony Mundell, Mary Parker, Ginnie Copsey et al 6 Jul 2016. Several old plants in car-park behind the Selborne Arms SU7433, Steve Povey 7 Jul 2016.

***Campanula glomerata* (Clustered Bellflower)** Chilbolton, West Down SU386393, on north slope, Glynne Evans 16 Jul 2016. Locally Abundant in areas cleared of scrub, Combe Hole SU5117 5701, SU5119 5698, SU5118 5696, etc., a splendid sight, Tony Mundell, Sarah Ball & Sarah White 2 Aug 2016.

***Campanula persicifolia* (Peach-leaved Bellflower)** Rooksbury Mill Park LNR Bioblitz SU356443, garden escape, Mike Wildish 26 Jun 2016. Priory Farm SU757340, on bank in Honey Lane, Steve Povey 10 Aug 2016.

***Campanula rotundifolia* (Harebell)** Locally Frequent at Combe Hole SU5117 5701 in area cleared of scrub, Tony Mundell, Sarah Ball & Sarah White 2 Aug 2016. W of Kimpton SU2568 4605, beside footpath, Tony Mundell & Isobel Girvan 16 Aug 2016.

***Campanula trachelium* (Nettle-leaved Bellflower)** NW of Sydmonton SU4724 5930, Graeme Down 7 Jul 2016. Chawton Park Wood SU6937, Geoffrey Farwell 12 Aug 2016.

***Carex acuta* (Slender Tufted-sedge)** Large patches several metres across in grassy field at Sherfield on Loddon SU6799 5850 and SU6802 5848, Tony Mundell & Adam Lucas 4 Aug 2016.

***Carex disticha* (Brown Sedge)** Patches in damp grassy field at Sherfield on Loddon SU6799 5850 and SU6800 5849, Tony Mundell & Adam Lucas 4 Aug 2016.

***Carex hostiana* (Tawny Sedge)** Pondtail Heath, groups in three places near the canal, SU8277 5356 / SU8278 5355, also groups in at least seven places near the canal, SU8280 5355 / SU8286 5359, Chris Hall 30 Jun 2016.

***Carex muricata* subsp. *paiarae* (Prickly Sedge)** On roadside at Kingsley SU8008 3839, Tony Mundell 8 Jul 2016. Beside footpath, Heckfield SU719614, Tony Mundell & Peter Scott 3 Aug 2016.

***Carex pulicaris* (Flea Sedge)** Pondtail Heath, localised, becoming overgrown by gorse, SU8277 5355, SU8279 5356, also present at SU8283 5359, Chris Hall 30 Jun 2016. About half a dozen clumps at Hazeley Heath SU7630 5809, just one seed spike was still present confirming the identification, Chris Hall & Tony Mundell 1 Nov 2016.

***Carex strigosa* (Thin-spiked Wood-sedge)** In shady woodland, Ramsdell SU589571, Sarah Ball & Sarah White 18 Jun 2016.

***Catapodium marinum* (Sea Fern-grass)** At least 70 plants, growing near the halophytes *Puccinellia distans* and *Spergularia marina* along east verge of the dual carriageway of the A287 at North Warnborough SU7279 5262, SU7290 5253, SU7282 5262, and SU7280 5262, Tony Mundell 30 Jun 2016.

***Centaurea cyanus* (Cornflower)** On recently rotavated area beside bridge over M3 at Fleet SU8146 5616 to SU8149 5612, in many different colours, presumably sown by local council, Tony Mundell 5 Jul 2016. Roadside area, Andover SU342458, originally planted, now persisting from seed, Mike Wildish 6 Jul 2016. Two plants in flower W of Soldridge SU6404 3573, in an abandoned arable field now dominated by coarse grasses with much *Arrhenatherum elatius* and some *Fumaria officinalis* hanging on, Tony Mundell, Ginnie Copsey & Mary Parker 13 Jul 2016. In profusion sown in a long, wide strip along arable field edge at Hartley Park Farm, Selborne SU736361, Tony Mundell 31 Jul 2016.

***Centaureum pulchellum* (Lesser Centaury)** Several plants at Up Nately SU7107 5256 on bridge over M3, Tony Mundell, Steve Povey, Adam Lucas et al 30 Jun 2016. Along pavement edges on M3 bridge, Fleet SU8143 5620 to SU8146 5618 on one pavement, and SU8145 5617 to SU8141 5621 on a parallel pavement edge, Tony Mundell 5 Jul 2016.

***Cephalanthera damasonium* (White Helleborine)** Under Beech on roadside bank S of Sydmonton at SU4917 5684, Graeme Down 26 Jun 2016.

***Chenopodium giganteum* (Tree Spinach)** Plentiful in an area of 'set-aside', Holtham Lane SU725317, Steve Povey 25 Sep 2016.

***Chenopodium glaucum* (Oak-leaved Goosefoot)** Thousands of plants along field edge at S of Eversley Cross at SU7922 6028 and within field of Maize, Tony Mundell 5 Jul 2016. A good display of plants scattered around a manure heap about 50 yards off the footpath near Hill Barn, Lower Bullington SU4537 4052, Victor Freestone 9 Sep 2016.

***Cirsium acaule* (Dwarf Thistle)** Remnant of chalk grassland on road verge at Northington SU5611 3758, Steve Povey & Tony Mundell 14 Jul 2016. Occasional in area previously cleared of scrub, Combe Hole SU5117 5695, SU5117 5701, etc., Tony Mundell, Sarah Ball & Sarah White 2 Aug 2016. W of Kimpton SU2566 4605, beside footpath, Tony Mundell & Isobel Girvan 16 Aug 2016.

***Cirsium eriophorum* (Woolly Thistle)** The Mill Field LNR SU663535, Basingstoke BioBlitz, James Andrews 31 Jul 2016. Two plants at Thruxton Down SU2522 4416 on road verge, Tony Mundell & Isobel Girvan 16 Aug 2016.

***Coeloglossum viride* (Frog Orchid)** Around 12 plants on bank of large pit at Noar Hill SU7417 3196, Steve Povey 8 Jul 2016.

***Cornus mas* (Cornelian-cherry)** St Giles Hill Park, Alresford Road, Winchester SU4875 2942, with other shrubs, Anna Stewart 20 Jul 2016.

***Cosmos bipinnatus* (Mexican Aster)** On recently rotavated area beside bridge over M3 at Fleet SU8146 5616 to SU8149 5612, presumably sown by local council, Tony Mundell 5 Jul 2016. Large patch in previously rotavated roadside area at Odiham SU750513, near A287 roundabout, where sown by council as 'wildflowers', Tony Mundell 14 Aug 2016.

***Cotoneaster dammeri* (Bearberry Cotoneaster)** Hawkey Churchyard SU745291, single plant growing from the bole of a Yew, Steve Povey 5 Oct 2016.

***Crassula tillaea* (Mossy Stonecrop)** Burns Hill, very plentiful at track junction in c. 15 x 6 metres, SU8356 5099, Chris Hall 21 Jun

2016. Woolmer Forest SU7867 3010, at Palmer's Ball, Graham Steven 8 Jul 2016.

***Crepis biennis* (Rough Hawk's-beard)** Beside four separate fields at Vale Farm, Longparish, SU445441, SU450437, SU452428 and SU448440, Cath Shellswell 14 Jul 2016.

***Cruciata laevipes* (Crosswort)** A31 N of Four Marks SU689366, a few plants on verge, Geoffrey Farwell 12 Aug 2016.

***Cyclamen hederifolium* (Sowbread)** At Bramley SU6442 5884 single plant on roadside verge, Adam Lucas 29 Aug 2016. At Winklebury SU6092 5234 on bankside, Adam Lucas 13 Sep 2016. Palm Hall Close, Winchester SU4899 2939, between hedge and road, Anna Stewart 19 Oct 2016.

***Dactylorhiza praetermissa* (Southern Marsh-orchid)** Marsh beside Bourley Pond, 12 spikes (two trampled), SU8287 5040, Chris Hall 21 Jun 2016. Easton Waterworks SU5013 3210, set aside agricultural land beside M3, Charlotte Smith 26 Jun 2016.

***Daphne laureola* (Spurge-laurel)** In The Warren SU7328, Steve Povey 5 Jul 2016. Worting SU600520, beside path in wood, Adam Lucas 13 Sep 2016.

***Digitaria ischaemum* (Smooth Finger-grass)** In plenty on bare sand around The Slab SU7810 3588, Steve Povey 20 Jul 2016.

***Dipsacus pilosus* (Small Teasel)** N of Sherfield on Loddon SU6895 5999, c. 10 plants beside stream, Adam Lucas 4 Aug 2016. Several plants in rough grass beside perimeter fence of Sheet Allotments at SU7590 2482, Steve Povey 1 Sep 2016.

***Dittrichia graveolens* (Stinking Fleabane)** Beside or in central reservation of M3 at Abbots Worthy SU496315, Junction 9 SU497305, Kings Worthy SU508334, Kings Worthy SU510338, Junction 5 SU725529, all Tony Mundell 17 Sep 2016.

***Drosera rotundifolia* (Round-leaved Sundew)** Eelmoor Flash, east side, c. 700 plants SU8423 5278, Chris Hall 12 Jun 2016. Caesar's Camp, flush on north slope, c. 700 plants, SU8368 5039, Chris Hall 21 Jun 2016.

***Echinochloa crus-galli* (Cockspur)** Weedy patch by Ramsdell Village Hall SU5893 5737 Sarah Ball & Sarah White 23 Aug 2016. 10+ plants at Avington SU5308 3128, Anna Stewart, Loraine Martin & Andrea Bassett 26 Aug 2016.

***Echinops bannaticus* (Blue Globe-thistle)** Beside public footpath N of Kingsley SU7839 3925, Tony Mundell 14 Sep 2016.

***Eleocharis quinqueflora* (Few-flowered Spike-rush)** Eelmoor Flash, east side, locally abundant through 12 metres but *Juncus* encroaching, SU8425 5279, Chris Hall 12 Jun 2016.

***Epipactis phyllanthos* (Green-flowered Helleborine)** Great Pen Wood, roadside SU452622, Mike Norman 2 Aug 2016. Only two on east side of Hollywater Road, Bordon SU8059 3474, only six on west side of road, at SU8058 3473, also nine in adjacent garden at SU8058 3473, Bill & Chris Wain 14 Jul 2016.

***Eryngium campestre* (Field Eryngo)** Drove past and noted that the plant [beside A34 at Sutton Scotney SU4592 4011] has reappeared and is now protected from mowing by a fence, Gareth Knass 18 Jul 2016.

***Eschscholzia californica* (Californian Poppy)** Andover SU342458, roadside area, originally planted, now persisting from seed, Mike Wildish 6 Jul 2016. Well naturalised in several places alongside main-road through Selborne SU7433, Steve Povey 7 Jul 2016.

***Euonymus japonicus* (Evergreen Spindle)** St Giles Hill Graveyard, Winchester SU49122940, in a very overgrown area, not fruiting, Anna Stewart 21 Oct 2016, specimen confirmed by Tony Mundell.

***Euphorbia characias* (Mediterranean Spurge)** Sheet SU756242, one intact stem and two cut down on left at end of road, Martin Rand 8 Jul 2016. A large plant at Sleaford Sand-pit SU8053 3840, Tony Mundell 9 Jul 2016.

***Euphorbia cyparissias* (Cypress Spurge)** Andover SU356444, Rooksbury Mill Park LNR Bioblitz, garden escape, Mike Wildish 26 Jun 2016. At Worting SU6036 5296 beside farm buildings, Adam Lucas 13 Sep 2016.

***Euphorbia esula* (Leafy Spurge)** Crawley SU424350, in former gate entrance on W side of road, reduced to a single flowering stem, Martin Rand 8 Jul 2016.

***Euphorbia lathyris* (Caper Spurge)** S of St Mary Bourne SU4248 4989, several exceptionally large bushy plants 4-5 ft high on either side of footpath, Tony Mundell, Ginie Copsey & Mary Parker 13 Jul 2016. Several plants at Northington SU5651 3744 in grassy area (former graveyard) beside churchyard, Tony Mundell & Steve Povey 14 Jul 2016.

***Euphorbia platyphyllos* (Broad-leaved Spurge)** Single plant in arable field corner S of South Warnborough at SU7359 4536, Tony Mundell, Isobel Girvan, Mike Harrison & Anna Stewart 27 Jul 2016.

***Euphorbia stricta* (Upright Spurge)** Old Basing Churchyard SU66585288, nine plants in a grassy area, presumably from introduced seed, Adam Lucas 29 Jul 2016. Voucher specimen collected for Hb. ARGM on 4 Aug 2016.

***Fagopyrum esculentum* (Buckwheat)** Middle of bare arable, Linkenholts SU370571, Peter Billingham 24 Aug 2016.

***Festuca filiformis* (Fine-leaved Sheep's-fescue)** Hook Common, thinly scattered in many places, e.g. SU7206 5348, SU7190 5342 and SU7159 5316, Occasional for this site, HFG 14 Aug 2016.

***Filago minima* (Small Cudweed)** Long Valley Heath, dense groups on ground disturbed last winter, c. 3000 estimated around SU8311 5232, about 100 plants at SU8314 5234, Chris Hall 2 Jul 2016. Scattered on The Slab around SU781358, Steve Povey 20 Jul 2016.

***Filago vulgaris* (Common Cudweed)** Occasional on The Slab around SU781358, Steve Povey 20 Jul 2016. Dozens beside minor road off Woolmer Road to MOD buildings, Longmoor SU788312, Tony Mundell & Steve Povey 31 Jul 2016.

***Fraxinus angustifolia* (Narrow-leaved Ash)** Four trees planted at Sherfield on Loddon SU6797 5800 in car park, Tony Mundell & Adam Lucas 4 Aug 2016. At East Woodhay SU4099 6081 beside footpath, Tony Mundell & Graeme Down 11 Aug 2016.

***Fumaria densiflora* (Dense-flowered Fumitory)** Tidgrove Warren Farm, several at SU5262 5439 and SU5261 5459, Tony Mundell & Sarah Ball, 7 Jul 2016. Laverstoke Park Farm SU536492, SU513475 and SU503481, Cath Shellswell 13 Jul 2016. Vale Farm SU441439, SU442441, SU446439, SU448440, SU450437 and SU452428, Cath Shellswell 14 Jul 2016.

***Fumaria parviflora* (Fine-leaved Fumitory)** Vale Farm SU441439, Cath Shellswell 14 Jul 2016. W of New Buildings, Longstock, arable margins at SU3394 3742 & SU3408 3737, Martin Rand, Ginie Copsey & Anna Stewart 21 Jul 2016.

***Galega officinalis* (Goat's-rue)** Chawton Park Wood SU684365, solitary clump on clay spoil-heap beside ride, Geoffrey Farwell 12 Aug 2016. Two plants on roadside verge at entrance to Snailing Lane, Greatham SU7676 3044, Steve Povey 15 Aug 2016.

***Galeopsis angustifolia* (Red Hemp-nettle)** Tidgrove Warren Farm, at SU5184 5425 (at least 20 plants) SU5195 5428, SU5182 5421, SU5183 5424 (group of four, large branched plants with flowers and seeds) and scattered in groups of up to 20 across the field, Sarah Ball & Sarah White 22 Aug 2016. Micheldever Spoil Heaps, 25 plants at SU5196 4442 and 35 at SU5199 4446, David Leadbetter 23 Aug 2016.

***Galinsoga parviflora* (Gallant Soldier)** In one or two places on Sheet Allotments SU758247, Steve Povey 1 Sep 2016.

***Galinsoga quadriradiata* (Shaggy Soldier)** In one or two places on Sheet Allotments SU758247, Steve Povey 1 Sep 2016.

***Genista anglica* (Petty Whin)** Pondtail Heath, senescent shrubs, seven stems located (five with flowers) at SU8280 5407, one shrub has survived the fires of 2010 and 2011 at SU8296 5379, Chris Hall 16 May 2016. Long Valley, senescent shrubs, seven stems located (five with flowers) SU8280 5407, Chris Hall 18 May 2016.

***Geranium columbinum* (Long-stalked Crane's-bill)** N of Bramdean SU6155 2964, Andrew Powling & Eric Clement 7 Jul 2016. Vale Farm SU452428 and SU453431, Cath Shellswell 14

Jul 2016. Bullington Cross at SU4634 4230 and SU4635 4244 on grassy track, Tony Mundell & Simon Melville 18 Aug 2016.

***Geranium pusillum* (Small-flowered Crane's-bill)** N of Hartley Wespall SU6966 5948, Jekyll and Hyde Pub in front of fence, Adam Lucas 4 Aug 2016.

***Glebionis segetum* (Corn Marigold)** On recently rotavated area beside bridge over M3 at Fleet SU8146 5616 to SU8149 5612, presumably sown by local council, Tony Mundell 5 Jul 2016. In profusion sown in a long, wide strip along arable field edge at Hartley Park Farm, Selborne SU736361, Tony Mundell 31 Jul 2016.

***Helleborus foetidus* (Stinking Hellebore)** Thruxton Down SU2560 4423, beside lane, presumably a garden escape, Tony Mundell & Isobel Girvan 16 Aug 2016.

***Heracleum mantegazzianum* (Giant Hogweed)** Woodmancott SU5658 4272 in area of dumped soil and rubbish, Tony Mundell & Gareth Knass 19 Jul 2016.

***Hieracium scotostictum* (Dappled Hawkweed)** Sun Valley industrial estate, Winnall SU49273009, in cracks in path, sides of building, Anna Stewart 20 Jul 2016.

***Hordeum secalinum* (Meadow Barley)** Sherfield on Loddon SU6792 5850 in damp grassy field, also Bramley Green in damp field beside footpath at SU6766 5916 and SU6772 5925, Tony Mundell & Adam Lucas 4 Aug 2016.

***Hydrocotyle ranunculoides* (Floating Pennywort)** Completely dominant over a patch 20m x 8m at Wyndhams Pool, Yateley SU8227 5960, in a hollow just separate from the main pond, beside the path around the south edge of the pond. Apparently there are plans to remove it, but I expect it will be impossible to control, Tony Mundell 18 Jul 2016.

***Hypericum elodes* (Marsh St John's-wort)** A few stems, with only one flower, at Hook Common SU7201 5348 in small pond, HFG 14 Aug 2016.

***Hypericum humifusum* (Trailing St John's-wort)** Single plant at Hook Common SU7133 5327, HFG 14 Aug 2016.

***Hypochaeris glabra* (Smooth Cat's-ear)** Beacon Hill, Ewshot, 24 plants where first found by Chris Hall a few days ago, amongst many plants of *Filago minima* at SU8234 4938 in the angle between two tracks, just east of an old gravel pit, Tony Mundell 8 Jul 2016. Woolmer Forest Bomb Disposal Site SU80323062, sparsely vegetated area at edge of driver training area, c.50 plants, Graham Steven 10 Jul 2016.

***Hypopitys monotropa* (Yellow Bird's-nest)** Jubilee Bottom SU8357 5143, on bank under pines, one in flower, two in bud, Chris Hall 21 Jun 2016. Harewood Forest SU405449, by footpath, David Lawman 26 Jul 2016.

***Illecebrum verticillatum* (Coral Necklace)** Hogmoor Inclosure, a large population of well over 100 plants, centred at SU78794 34852, with plants present on three tracks radiating off to the south, south, south-east and south-west, on bare wet sand and covering an area of c.50 squares metres, Tristan Norton 15 Sep 2016.

***Impatiens parviflora* (Small Balsam)** In deep shade at Selborne end of Honey Lane, SU7454 3332, Steve Povey 7 Jul 2016.

***Isolepis setacea* (Bristle Club-rush)** Single plant at Hook Common SU7135 5327 not far from access gate, HFG 14 Aug 2016.

***Jasione montana* (Sheep's-bit)** Bordon Sand Pit, Sleaford, a fine flowering plant under conifers on steep pit side at SU8068 3841, Tony Mundell 9 Jul 2016. Caesar's Camp, Aldershot SU8377 5018, Ian Stoneman 21 Jul 2016.

***Lactuca virosa* (Great Lettuce)** Ramsdell SU581579, on road hedgebank, Sarah Ball & Sarah White 23 Aug 2016.

***Lamium hybridum* (Cut-leaved Dead-nettle)** Vale Farm SU446439, Cath Shellswell 14 Jul 2016.

***Legousia hybrida* (Venus's-looking-glass)** Tidgrove Warren Farm, at least four plants at SU5201 5452, two at SU5189 5436, two at SU5188 5436, seven at SU5187 5438, one or two at SU5192 5431 and SU5188 5445, Tony Mundell & Sarah Ball 7 Jul 2016.

Vale Farm SU442437, Cath Shellswell 14 Jul 2016. W of New Buildings, Longstock, scattered in arable margin at SU338374, SU339374 and SU340373, Martin Rand, Ginnie Copsey & Anna Stewart 21 Jul 2016.

***Lemna gibba* (Fat Duckweed)** S of St Mary Bourne at SU4249 4988 in river beside pub garden. Much larger cells visible in centre part of fronds when held up to light, Tony Mundell, Ginnie Copsey & Mary Parker 13 Jul 2016.

***Leycesteria formosa* (Himalayan Honeysuckle)** Hook Common SU7134 5330, this alien shrub is very invasive and should be removed before it seeds extensively, HFG 14 Aug 2016. Winklebury SU6114 5351, one plant in wood, Adam Lucas 8 Sep 2016.

***Linaria maroccana* (Annual Toadflax)** Andover SU342458, roadside area, originally planted, now persisting from seed, Mike Wildish 6 Jul 2016.

***Littorella uniflora* (Shoreweed)** In shallow pool at Long Valley SU8366 5270, Chris Hall 6 Aug 2016.

***Lycopodium clavatum* (Stag's-horn Clubmoss)** Long Valley SU832526, only one plant still living, a stem cluster c. 20 x 12 cm; site very grassy now (too fertile?), Chris Hall 26 May 2016.

***Malva neglecta* (Dwarf Mallow)** Lasham SU676425, six plants on edge of mown verge, Geoffrey Farwell 9 Jul 2016. Sherfield on Loddon SU677582, pavement weed, Tony Mundell & Adam Lucas. Pyott's Hill, Lychpit SU66535385, single plant growing in driveway, Adam Lucas 22 Aug 2016.

***Malva x clementii* (Garden Tree-mallow)** Worting SU6036 5296, beside farm buildings, Adam Lucas 20 Sep 2016.

***Matricaria chamomilla* (Scented Mayweed)** Kitwood SU664332, scattered plants along footpath across barley field, Geoffrey Farwell 23 Jul 2016. Tidgrove Warren Farm SU5194 5427, Sarah Ball & Sarah White 22 Aug 2016.

***Melampyrum pratense* (Common Cow-wheat)** Hook Common, several plants near power lines at SU7209 5327 and SU7210 5327, HFG 14 Aug 2016.

***Misopates orontium* (Weasel's-snout)** Laverstoke Park Farm, in Spring barley, one plant at SU53491 49550, three plants at SU53456 49117, Cath Shellswell 13 Jul 2016.

***Myosoton aquaticum* (Water Chickweed)** Single plant at Bramley Green SU6780 5929 in ditch beside footpath, Tony Mundell & Adam Lucas 4 Aug 2016.

***Nassella tenuissima* (Argentine Needle-grass)** Elvetham Heath housing estate, Fleet, on road verge at 8051 5551 and more beside roundabout at 8053 5552, evidently seeded from nearby planting, Tony Mundell 21 Sep 2016, det. Eric Clement.

***Neotinea ustulata* (Burnt Orchid)** Ladle Hill SU477567, total of 147 plants for whole site, most flowers going over and mostly along the southern rampart before the SW entrance, Simon Melville 22 Jul 2016.

***Nicandra physalodes* (Apple-of-Peru)** In one or two places on Sheet Allotments SU758247, Steve Povey 1 Sep 2016. Fleet SU823546, single plant growing in a garden in Westover Road, definitely not planted or sown, possibly a seed contaminant in sown *Cosmos* or *Nicotiana* annuals, Dave Goddard 4 Nov 2016.

***Nonea lutea* (Yellow Nonea)** At Northington SU56501 37465 in an open grassy area (a former graveyard) near the church, suffering from recent mowing, Tony Mundell and Steve Povey 14 Jul 2016.

***Onoclea sensibilis* (Sensitive Fern)** West Liss SU778289, well-established in damp shady ground near river, Steve Povey 12 Jul 2016.

***Ononis spinosa* (Spiny Restharrow)** Chilbolton, West Down SU383389, on SW slope, Glynne Evans 17 Jul 2016.

***Ophrys apifera* (Bee Orchid)** Chilbolton, West Down, Dobbs Field at SU3877 3899, Glynne Evans 24 Jun 2016. Easton, set aside agricultural land near waterworks beside M3, 50 plants at SU5026 3217, 20 at SU5022 3215, 12 at SU5011 3214, 6 at SU5016 3211, Charlotte Smith 26 Jun 2016. Andover SU357444, Rooksbury Mill

Park LNR Bioblitz, at least 20 flowering spikes, Mike Wildish 26 Jun 2016.

Oreopteris limbosperma (Lemon-scented Fern) Watts Common, Army Golf Course SU85735318, Andrew Leonard 31 Aug 2016. Elvetham Heath, in drainage ditch SU80375539, SU80385543, SU80385544 and SU80395547, Andrew Leonard 2 Sep 2016.

Orobancha elatior (Knapweed Broomrape) SW of Ecchinswell, SU4859 5892 and SU4886 5918, Graeme Down 2 Jul 2016. Ropley Soke SU652339, nine spikes on A31 roadside verge, Geoffrey Farwell 16 Jul 2016. SE of Weyhill SU325451, alongside footpath south of railway line, single group, Mike Wildish 5 Aug 2016. SW of Micheldever, in field corner at SU5029 3707 also at SU5089 3656 and SU5080 3656 on *Centaurea scabiosa*. At the latter site an exceptionally rich yellow colour, Tony Mundell, Steve Povey, Mary Parker & Ginnie Copsey 17 Aug 2016.

Orobancha hederæ f. monochroma (Ivy Broomrape- yellow form) Small quantity beside road S of Old Alresford at SU5884 3316, Steve Povey 15 Jul 2016.

Osmunda regalis (Royal Fern) Newtown, St Mary's Church SU47606371, Andrew Leonard 20 Aug 2016.

Paeonia officinalis (Garden Peony) S of Eversley, single plant, flower over, at SU7905 6037 beside footpath, far from houses, Tony Mundell 5 Jul 2016.

Papaver argemone (Prickly Poppy) Tidgrove Warren Farm, single plant at SU5192 5446, Tony Mundell & Sarah Ball 7 Jul 2016. W of New Buildings, Longstock, arable margin at SU340373 and scattered along arable margin SU337374 to SU339374, Martin Rand, Ginnie Copsey & Anna Stewart 21 Jul 2016.

Papaver atlanticum (Atlas Poppy) Established on Sheet Allotments SU758247, Steve Povey 1 Sep 2016.

Papaver dubium (Long-headed Poppy) S of Sydmonton SU4949 5648, Graeme Down 26 Jun 2016.

Papaver hybridum (Rough Poppy) Laverstoke Park Farm SU513475, Cath Shellswell 13 Jul 2016. W of New Buildings, Longstock, Scattered from SU337374 to SU339374, also SU340373, Martin Rand, Ginnie Copsey & Anna Stewart 21 Jul 2016. E of Shipton Bellinger, single plant at SU2517 4596 in an arable field that had been tilled but not planted with a crop, Tony Mundell & Isobel Girvan 16 Aug 2016.

Papaver lecoqii (Yellow-juiced Poppy) Kingsley SU7996 3850, beside footpath, Tony Mundell 8 Jul 2016.

Paris quadrifolia (Herb-Paris) Several plants by path into The Warren at SU7316 2859, Steve Povey 5 Jul 2016.

Persicaria amplexicaulis (Red Bistort) Selborne SU744333, several plants established on grassy-bank, Steve Povey 7 Jul 2016. Heckfield SU7163 6084, by footpath, Tony Mundell & Peter Scott 3 Aug 2016.

Persicaria campanulata (Lesser Knotweed) Basingstoke Canal, Pondtail Heath, still present beside towpath at SU8266 5359, Ian Ralphs 22 Sep 2016, det. Tony Mundell from a photo.

Petroselinum segetum (Corn Parsley) Vale Farm SU450437 and SU453431, Cath Shellswell 14 Jul 2016.

Phytolacca acinosa (Indian Pokeweed) Chilbolton, West Down, single plant, flowering, on slope previously covered in scrub, near chalk pit, intention is to eliminate it, Glynne Evans 17 Jul 2016.

Pilularia globulifera (Pillwort) Pondtail Heath SU8282 5359, abundant for 7 metres on a Plantlife turf scrape, a seasonal pool currently mud, width variable 1-3 metres. Also SU8290 5358, main patch c. 2 x 1.5 metres, mostly somewhat droughted. Also a patch c. 70 x 30cm to NW. A seasonal pool, currently dried mud, all Chris Hall 16 Aug 2016.

Poa angustifolia (Narrow-leaved Meadow-grass) Whitchurch SU4604 4771, on top of an old flint wall, Simon Melville, Mary Parker, Anna Stewart & Ginnie Copsey 24 Aug 2016, specimen confirmed by Tony Mundell.

Poa compressa (Flattened Meadow-grass) Whitchurch SU4604 4771, on top of an old flint wall, Simon Melville, Mary Parker, Anna Stewart & Ginnie Copsey 24 Aug 2016, specimen confirmed by Tony Mundell. Winchester, North Walls SU4810 2983, top of ancient flint wall, Anna Stewart 4 Nov 2016, specimen conf. Tony Mundell.

Polypogon viridis (Water Bent) A287, North Warnborough, growing near the halophytes *Puccinellia distans* and *Spergularia marina* along east verge of the dual carriageway at SU7287 5255, Tony Mundell 30 Jun 2016. Fleet, Church Road, pavement weed at SU8095 5436, Tony Mundell 21 Sep 2016.

Polystichum aculeatum (Hard Shield-fern) Selborne, Honey Lane SU74543333, there are candidate *P. x bicknellii* here. Also Selborne, Sotherington Lane SU75263301 and Greatham, Church Lane SU77183067, all Andrew Leonard 5 Oct 2016.

Polystichum setiferum (Soft Shield-fern) Norris Hill SU8324 5326 growing with *D. filix-mas* in an old army trench. A remarkable form with the pinnules pinnate, Chris Hall 20 Aug 2016, specimen identified by Dr F Rumsey. Selborne, Honey Lane SU74543333 (with candidate *P. x bicknellii*) SU75923402 and SU76033405, also Selborne, Sotherington Lane SU75263301 and Greatham, Church Lane SU77343051, Andrew Leonard 5 Oct 2016.

Potentilla indica (Yellow-flowered Strawberry) West Liss, spreading alongside 'Riverside-walk' at SU7796 2859, Steve Povey 12 Jul 2016. Single plant on Sheet Allotments SU758247, Steve Povey 1 Sep 2016.

Pterocarya fraxinifolia (Caucasian Wingnut) Longstock Water Gardens SU369382, many suckers, Ginnie Copsey 3 Nov 2016.

Puccinellia distans (Reflexed Saltmarsh-grass) Extends with *Spergularia marina* and *Cochlearia danica* along east verge of A287 dual carriageway from SU7298 5247 to near the M3 Junction 5 roundabout at SU7271 5292, Tony Mundell 30 Jun 2016.

Salix x smithiana (S. viminalis x caprea) S of Sherfield on Loddon, beside track at SU6824 5636, leaves similar to *S. viminalis* but much wider and longer. No striations under bark so unlikely to be *S. viminalis x cinerea*, Tony Mundell 26 Jun 2016. Tall shrub at Odiham SU7465 5168 directly beside Colt Hill bridge over Basingstoke Canal, Tony Mundell 23 Oct 2016. Voucher specimens of both bushes collected.

Sambucus ebulus (Dwarf Elder) Hurstbourne Priors, one plant on field boundary SU437461, also on B3400 verge SU438463, Graeme Davis 8 Aug 2016.

Schoenoplectus tabernaemontani (Grey Club-rush) 12 stems at Eelmoor Marsh SU8389 5344 on a turf cut close to Cove Brook, a little over 100m from the first Eelmoor site for it. The turf cut was made in Nov 2011, so spread by seed is a possibility, Chris Hall 5 Aug 2016. 100+ stems at SU8366 5270 in a shallow pool where there has been disturbance. 100+ stems at Long Valley SU8366 5270 in a shallow pool where there has been disturbance, Chris Hall 6 Aug 2016.

Senecio sylvaticus (Heath Groundsel) Long Valley, plentiful on disturbed ground, 200+ at SU83135237, 400+ at SU8314 5235, Chris Hall 2 Jul 2016.

Senecio x subnebrodensis (S. squalidus x viscosus) Winchester SU4790 3010 in corner of car park. Still in full flower, achenes undeveloped. Phyllaries black tipped (as *S. viscosus*), stems, leaves and phyllaries all glandular (as *S. viscosus*), Tony Mundell 20 Oct 2016. Voucher specimen collected.

Silene noctiflora (Night-flowering Catchfly) W of New Buildings, Longstock, scattered along field margin from SU337374 to SU339374 and at SU340373, Martin Rand, Ginnie Copsey & Anna Stewart 21 Jul 2016.

Spergula arvensis (Corn Spurrey) Scattered along field margin at Kitfield Farm, Kitwood SU662337, Geoffrey Farwell 23 Jul 2016. Many plants in unplanted arable field at East End SU4177 6097, Tony Mundell & Graeme Down 11 Aug 2016.

***Spiranthes spiralis* (Autumn Lady's-tresses)** Eelmoor, Laffan Meadow, 21 spikes at SU8482 5361. Never recorded in this area before, Chris Hall 5 Sep 2016.

***Stachys arvensis* (Field Woundwort)** Laverstoke Park Farm SU514478 and SU538478, Cath Shellswell 13 Jul 2016. Seven plants noted W of Soldridge at SU6408 3552 in arable field corner, Tony Mundell, Ginnie Copsey & Mary Parker 26 Jul 2016. NW of Preston Candover, locally plentiful in a sown strip along arable field edge, extending at least a hundred yards north from field corner at SU5846 4246, Tony Mundell, Gareth Knass & Mike Harrison 23 Aug 2016.

***Stachys x ambigua* (Hybrid Woundwort)** W of Northington at SU5533 3743 in hedge at road junction, Tony Mundell & Steve Povey 14 Jul 2016. SW of Ramsdell SU578568, on a laneside hedgebank, Sarah Ball & Sarah White 18 Jul 2016.

***Teucrium botrys* (Cut-leaved Germander)** Micheldever Spoil Heaps SU519444, 159 plants systematically counted on all slopes, all but three flowering, Graham Dennis 9 Jul 2016.

***Trifolium incarnatum* subsp. *incarnatum* (Crimson Clover)** N of Danebury Down SU331379, sown in arable marginal strip, Martin Rand, Ginnie Copsey & Anna Stewart 21 Jul 2016. N of Selborne SU736361, in profusion sown in a long, wide strip along arable field edge at Hartley Park Farm, Tony Mundell 31 Jul 2016.

***Ulmus x hollandica* (Dutch Elm, *U. glabra x minor x plotii*)** Several trees, c. 10m high, on field boundary at Vernham Street SU3504 5745 on field boundary, Peter Billingham 10 Aug 2016, determined by Dr. Max Coleman (*Ulmus* referee) from photographs of leaves and fruits.

***Urtica dioica* subsp. *galeopsifolia* (Stingless Nettle)** N of Hartley Wespall SU6999 5910, in hedgerow / ditch, Adam Lucas 4 Aug 2016. Whitchurch SU462474, narrow-leaved non-stinging, at the weir, Simon Melville, Mary Parker, Anna Stewart & Ginnie Copsey 24 Aug 2016. Longstock, Church Farm SU359369, stingless variety in damp area, Ginnie Copsey 3 Nov 2016.

***Vaccinium oxycoccos* (Cranberry)** Greatham Moor SU78623073, Graham Steven 8 Jul 2016.

***Veronica agrestis* (Green Field-speedwell)** About 20 plants on edge of arable field at Kingsley SU8000 3937, all with white flowers, Tony & Pat Mundell 8 Jul 2016.

***Veronica catenata* (Pink Water-speedwell)** N of Sherfield on Loddon SU6812 5936, single plant in marshy area, Adam Lucas 4 Aug 2016.

***Viola lactea* (Pale Dog-violet)** Velmead Common, Gelvert Bottom, SU8276 5298, one plant now flowering, Chris Hall 4 Jun 2016.

***Vulpia ciliata* (Bearded Fescue)** Still present at Woolmer Road SU7894 3131 but flowers well over and plants now dried up, Tony Mundell & Steve Povey 31 Jul 2016.

***Wahlenbergia hederacea* (Ivy-leaved Bellflower)** A large colony at Brocks Heath c. SU8296 5252 to SU8295 5252 in short-grazed grass beside the Gelvert Stream where first noted about two weeks ago by Ian Ralphs. A patch c. 70 x 15cm on west bank of the stream and a larger patch c. 125 x 50cm about 7m further north also on the west bank. A much larger patch on the east bank with quite a number of flowers, c. 1m wide and extending 3m+ from the streamside, partly beneath a large Gorse shrub. All Chris Hall 14 Sep 2016.

The Hampshire and Isle of Wight Wildlife Trust Flora Group aims to monitor the status and promote conservation of the flora of the two counties and develop skills of those members interested in flora.

This edition of *Flora News* was put together by Catherine Chatters and John Norton. Many thanks to everyone who contributed. If you have any comments or would like to submit articles or photographs for inclusion in a future issue please contact:

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When submitting digital photographs, please reduce the size of each image to no larger than 2MB and please include your own name in the filename, along with description of subject and date taken for inclusion in the caption. Please include English and scientific names of any plants.

If you would like to send in your plant records, please see the Hants Plants website:

<http://www.hantsplants.org.uk> for information, including downloadable forms, or contact your relevant vice-county Recorder:

VC11: Martin Rand

3 Kings Close, Chandler's Ford, Eastleigh, SO53 2FF

Tel: 023 8036 0395, e-mail: VC11recorder@hantsplants.net

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38 Conifer Close, Church Crookham, Fleet GU52 6LS

Tel: 01252 614516, e-mail: VC12recorder@hantsplants.net



Flora Group members helping with Marsh Gentian count at Bartley Heath, 28 August 2016 (Peter Vaughan)

If you would like to join Hampshire & Isle of Wight Wildlife Trust and become a member of the Flora Group please contact our Membership Team on [01489 774400](tel:01489774400) or visit our website for further details: www.hiwwt.org.uk

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