

BOTANICAL CORNWALL

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Edited by I.J. Bennallick & D.A. Pearman

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Five Acres, Allet, Truro, Cornwall, TR4 9DJ

Tel: (01872) 273939 Fax: (01872) 225476

Website: www.erccis.co.uk

and

www.cornwallwildlifetrust.org.uk



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Cover photo: Perennial Centaury *Centaureum scilloides* at Gwennap Head, 2010.

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Cornwall

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Introduction

We can only apologise for the very long gestation of this number. There is so much going on in the Cornwall botanical world – a New Red Data Book, an imminent Fern Atlas, plans for a new Flora and a Rare Plant Register, plus masses of fieldwork, most notably for Natural England for rare plants on SSSIs, that somehow this publication has kept on being put back as other more urgent tasks vie for precedence.

In view of this we have decided that if we are going to go forward we must clear the decks now, and have produced this number without some of the extra features that have adorned other recent issues. This includes photographs and some of the distribution maps that would complement the plant records. We promise that those will return in the next issue. The real lesson learnt is how much Rose Murphy did in compiling the previous 13 issues and how difficult (impossible?) it will be to replace her. In particular we regret the absence of her magisterial introductory ‘Progress Report’, her overview of the year. But the task of covering most of five years, 2005 to 2009, would have been huge, and would only have further delayed this issue.

However, reading through the papers that we have included, and in particular the vast numbers of interesting plant records in a county that we idly assume to have been well-botanised, we are encouraged to hope that there is enough of interest here for all our readers. Interesting additions to the Cornish Flora since 2005 in this edition are Sea Daffodil *Pancreatium maritimum* which was found growing on sand dunes at Marazion Green and may well be native; the confirmation of *Rosa tomentosa* as present in Cornwall; and also the confirmation (and first known record) of the long suspected hybrid between *Hypericum undulatum* and *H. tetrapterum*, which has now been recorded in six sites in Cornwall with both parents.

In late 2009 and 2010 there have been some notable refinds of native species that have not been seen for many years including *Juncus subnodulosus*, *Centaureum scilloides* and *Phegopteris connectilis*. The significance of these is too great NOT to include in this issue, and details and photos of these finds can be found on page 36.

We hope that you will enjoy this issue and we look forward to producing Botanical Cornwall 15 in 2011, which will include an update on the Botanical Cornwall Group field trips since 2005, as well as other articles which we could not fit into this issue. Whilst we strive to ensure that this issue is error free, if you see any corrections or omissions that are needed please contact Ian Bennallick, co-ordinator of the Botanical Cornwall Group at Lower Polmorla, St Wenn, Bodmin, Cornwall, PL30 5PE or email ianbennallick@btinternet.com.

We must sincerely thank Colin French, Len Margetts, Nicholas de Sausmarez and Rosemary Parslow for their articles, and Alex Lockton for so kindly formatting our drafts.

Ian Bennallick and David Pearman

Editors Note – errata for previous issues

In Botanical Cornwall 12 (2003) Geoff Kitchener has pointed out an error that crept in towards the bottom of page 24 - "*E. ciliatum* or *E. montanum*" should have read "*E. ciliatum* or *E. obscurum*".

In Botanical Cornwall 13 (2005) on page 20 where a list of ‘extinct plants of Cornwall’ is given, *Euphorbia peplus* should read *Euphorbia peplis* - *Euphorbia peplus* is definitely NOT extinct in Cornwall! In the same issue on page 25 *Atriplex pedunculata* was included in a list of threatened plants in Cornwall. This was included erroneously so should be removed as it has never been a member of the Cornish flora. Tim Rich has also pointed out that the drawings of the stipules of *Spergularia bocconeii* on page 51 are printed upside down. Paul Green has also noted that the *Euphorbia maculata* on page 111 should be *E. thymifolia*.

A new dandelion - *Taraxacum ronae* – and its distribution in Cornwall

L. J. Margetts

This recently described dandelion (Margetts 2007) belongs to the section *Naevosa*, members of which have leaves that are spotted or variously covered with dark mauve or black markings. It was first found in Cornwall in 1973, on a small relict part of Connor Downs, and subsequently in many other places in West Cornwall. A specimen from Penpol House, Feock, sent to the late C. C. Haworth, was thought by him to be the European species *Taraxacum maculigerum* and was forwarded by him to the Scandinavian specialist C. I. Sahlin for confirmation; but on the sheet containing this specimen (**herb. A. J. Richards**) there is a note from Sahlin to the effect that it was a new species and 'has nothing or little to do with *T. maculigerum*'. As a result, Chris Haworth coined the work-name *T. 'non-maculigerum*' for recording purposes and the Cornish plants were listed and mapped under this name in *Botanical Cornwall* No. 5 (1991). After Dr A. J. Richards had described a new *Naevosa* species - *T. maculosum* (Richards 1981) - the Cornish plants were thought to be a polliniferous form of that species, but later on Chris Haworth decided that they were conspecific with yet another of the *Naevosa* section - the northern *T. drucei*. The Cornish records were mapped as such in *Dandelions of Great Britain and Ireland* (Dudman & Richards 2000) and were also included under this name in the *Flora of Cornwall* (French, Murphy & Atkinson 1999), where the authorship of *T. drucei* is attributed incorrectly to A. J. Richards.

The type specimens of *T. drucei*, in the Fielding-Druce herbarium (**OXF**), were collected by G. C. Druce in Ireland in 1921, and named by the pioneer taraxacologist H. Dahlstedt, whose Latin description is pasted on the sheet. They show quite a different plant from the Cornish material: the leaves are spatulate with a broad terminal lobe, the involucre is rounded at the base, and the achenes are more-or-less smooth. This species favours different habitats too - natural niches such as cliff-ledges and rocks - whereas *T. ronae* is more a plant of grassland and hedgerbanks.

Clearly the time had come for this south-west dandelion to be given a name; the one chosen was after the author's wife, in memory of those halcyon days spent together recording the various microspecies.

T. ronae is not confined to Cornwall. It occurs infrequently in Devon, and extends to outlying parts of Dorset and South Somerset. A recent examination of Irish material from the Ulster Museum (**BEL**) shows that much of the material in the *T. drucei* folder there has to be re-labelled as *T. ronae*. It is more than likely that searches in Scilly and the Channel Islands would reveal its presence there too.

In the field *T. ronae* is easy to separate from other members of the section *Naevosa*, such as the widespread *T. euryphyllum* and the endemic *T. cornubiense*. In the early season its leaves are narrow, glabrous and shiny, with long narrow petioles, and strongly flecked with dark markings; the scapes are usually pale below but purplish above, leaving a pale green zone just below the conical involucre. Unlike *T. maculosum*, with which it has been confused, it produces abundant pollen, and has styles and stigmas that are yellowish at first, becoming discoloured later. Moreover, *T. maculosum* has leaves which are distinctly and roughly hairy, a useful character in the fresh state.

In Cornwall *T. ronae* is frequent in the northern 1 km squares of the Lizard Peninsula, where it favours the lower parts of Cornish hedges and the narrow grass verges below. Cornish material is often small, especially on soils that are shallow and lack suitable nutrients. The silhouette illustrated here shows well the leaf morphology of such plants.



Specimen of *Taraxacum rona*

Records of *T. ronae* in Cornwall

10 km square	1 km square	Locality	Year
West Cornwall v.c.1			
SW42	SW4524	Lamorna Valley	1980
SW53	SW5338	Carbis Bay	1977
SW53	SW5037	Trink Hill	1977
SW53	SW5537	Lelant (2 sites)	1979
SW53	SW5131	edge of Marazion Marsh	1982
SW53	SW5133	plant nursery, Crowlas	1982
SW53	SW5932	near Townshend (with A. L. Grenfell & K. L. Spurgin)	-
SW62	SW6822	Nantithet, The Lizard	1981
SW62	SW6823	Tresloskan, The Lizard	1981
SW62	SW6821	Cross Lanes, The Lizard	1981
SW62	SW6922	Skyburriowe Turn, The Lizard	1981
SW62	SW6923	Burncoose, The Lizard	1981
SW63	SW6537	Treslothan, near Troon (B. M. Sturdy, det. L. J. M)	1982
SW63	SW6832	Porkellis Moor	1976
SW64	SW6040	Connor Downs	1977
SW64	SW6443	Tehidy, nr Camborne	1974
SW71	SW7217	nr Gwendreath, The Lizard	1981
SW72	SW7122	Trevassack, The Lizard	1981
SW72	SW7320	Traboe Cross, The Lizard	1981
SW72	SW7322	S.W. of Newton, The Lizard	1981
SW72	SW7722	Tregowris, The Lizard	1981
SW72	SW7821	St Keverne, The Lizard	1981
SW73	SW7337	churchyard, Stithians	1983
SW75	SW7652	nr church, Perranzabuloe	1975
SW83	SW8138	Penpol House, Devoran	1977
East Cornwall v.c.2			
SW94	SW9244	Tregony	1976
SX05	SX05	mine-waste, St Austell	1979
SX25	SX2554	Shutta Hill, Looe	1980

Comparison of *T. ronaë* with *T. drucei*

<i>T. ronaë</i>	<i>T. drucei</i>
leaves narrowly oblanceolate, smooth and shiny	leaves spatulate
lateral lobes patent, the lower not much smaller	lateral lobes recurved, the lower smaller
interlobes narrow, long	interlobes wide, short
terminal lobe short, not wider than lateral lobes	terminal lobe broad, wider than lateral lobes
scape purple below involucre narrowed abruptly here, leaving a pale green zone	scape pale, not abruptly narrowed below involucre
involucre conical	involucre rounded
styles yellow at first	styles discoloured
achenes spinulose	achenes more or less smooth
cone 0.75 - 0.9 mm	cone up to 0.5 mm
When fresh, the narrow, smooth and shiny leaves of <i>T. ronaë</i> with very long unwinged petioles are distinct and readily recognised.	

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Recording in Cornwall 2006 to 2009

Colin French

At the Botanical Cornwall Group annual meeting in February 2006 it was agreed to systematically resurvey Cornwall in order to prepare for the next Flora of Cornwall. It was resolved that all records collected since 1999, when the last Flora of Cornwall was published (French *et al.* 1999), will be used, and fresh recording will, where possible, use the same methodology as last time. It is intended to produce a tetrad atlas again, as that is the best scale for publishing, however, the recording itself will be done at much finer resolution with individual botanists allocated 1 km squares rather than tetrads to survey. The new atlas will use the 1999 dataset as baseline data and will focus on identifying changes.

In recognition of the fact that the Flora of Cornwall will be but one product of this resurvey, and in order to maximise the usage of the data, the imperative was that future recording should be undertaken at the finest resolution possible using GPS receivers. Certainly, with the advent of GIS and other software mapping systems, the more accurate the grid references attributed to records, the greater number of uses those data can be put to. Indeed, the data amassed since 2006 have already contributed to the Cornish Red Data Book (Bennallick *et al.* 2009), the forthcoming Cornish Rare Plant Register, a Check-list of the Flowering Plants of Cornwall (French 2009), a MSc dissertation (Lawrence 2009), and are widely used by the recording community in Cornwall and beyond; and through the aegis of ERCCIS help the decision making processes of the various agencies that have a Nature Conservation remit such as Cornwall Wildlife Trust, Natural England, Environment Agency, National Trust and Cornwall Council.

Erica for Windows is the database used for managing the vascular plant records for Cornwall, as well as for a number of other plant and animal groups. Many of the key recorders use it to store their data and take advantage of this vast repository of wildlife data to facilitate their everyday recording activities.

Table 1. The data holdings of the Erica for Windows database (18/11/2009)

Category	Number
Biological records	1,991,284
Vascular plant records	1,258,229
People who have contributed data	14,845
Bibliographic sources	13,897
Taxa	24,749
Vascular plant taxa	3,166

Table 2 shows the number of records held on Erica for Windows for each year since 1995. 1996 was a pivotal year in biological recording in Cornwall as the millionth biological record was entered on computer during that year, followed by the closure of the Cornish Biological Records Unit. Since then, following a major upheaval in way recording activity was organised, the Erica database has been fed by a relatively few dedicated volunteers working from home. Gradually this network of recorders has grown and the systems and software have improved, such that, since 2007, the Erica for Windows database has grown at a rate of 3000 records a week and the computerisation of the two millionth biological record was celebrated in February 2010 (the millionth flowering plant and fern record was computerised in 2007).

Table 2 shows the dominance of the Botanical Recording Group (76% of the data), in terms of numbers of records processed, amongst the recording community of Cornwall (excluding the British Trust for Ornithology and Royal Society for the Protection of Birds who maintain their own datasets). Chart 1 demonstrates marked fluctuations in the level of vascular plant recording. The rolling average perhaps best illustrates the principal reasons for this variation.

It shows a peak in recording activity in the first few years as intensive surveying continued in preparation for the publication of the last Flora of Cornwall (French *et al.* 1999). This was followed by a general lull in recording activity to a background level, leading to a resurgence resulting from the 2006 decision to resurvey Cornwall for the next Flora. This latter surge in recording activity has certainly been dramatic.

Table 2. The number of records per year in the Erica for Windows database

Year	Number of vascular plants recorded	Rolling average	Total number of Biological Records
1996	41,416	41,416	49,315
1997	48,316	44,866	57,604
1998	30,507	40,079.67	44,059
1999	26,366	36,651.25	41,084
2000	23,369	33,994.8	38,988
2001	16,558	31,088.67	30,163
2002	29,755	30,898.14	43,198
2003	38,994	31,910.13	57,181
2004	25,371	31,183.56	43,382
2005	34,617	31,526.9	53,631
2006	40,779	32,368	58,111
2007	95,521	37,630.75	111,114
2008	131,154	44,824.85	153,166
2009	88,778	47,964.36	98,865
Total	671,501		879,861
Total since 1999	524,896		687,799

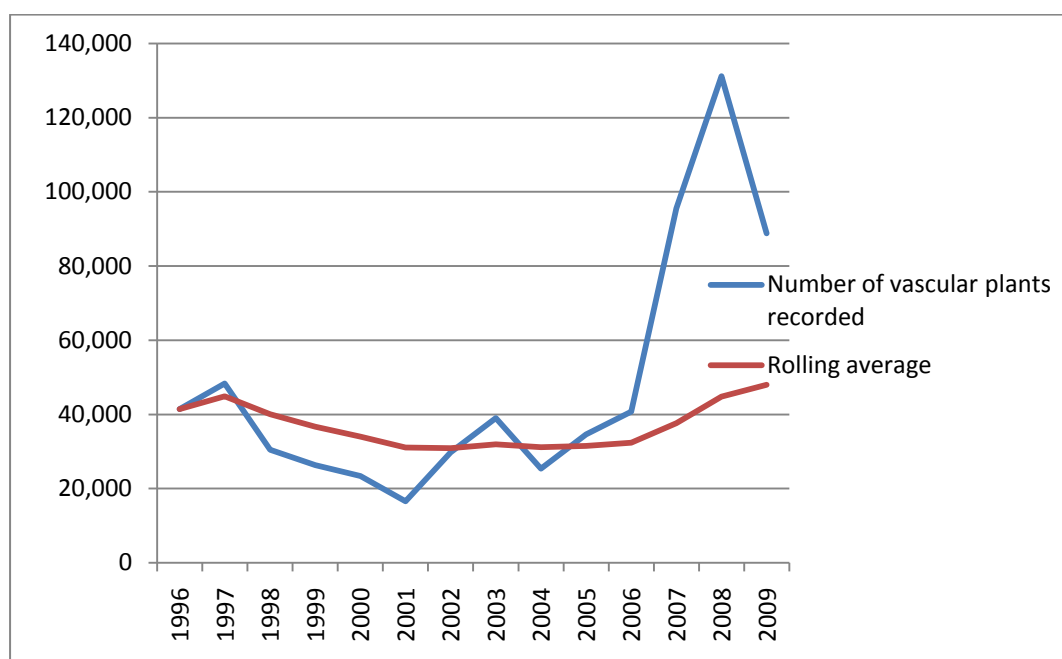
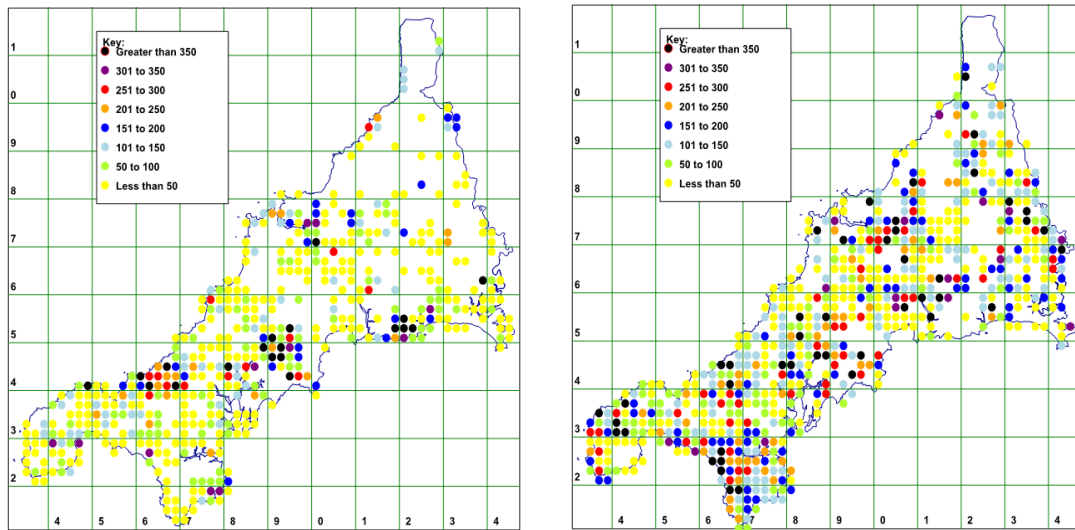


Chart 1. The variability in vascular plant recording since 1995

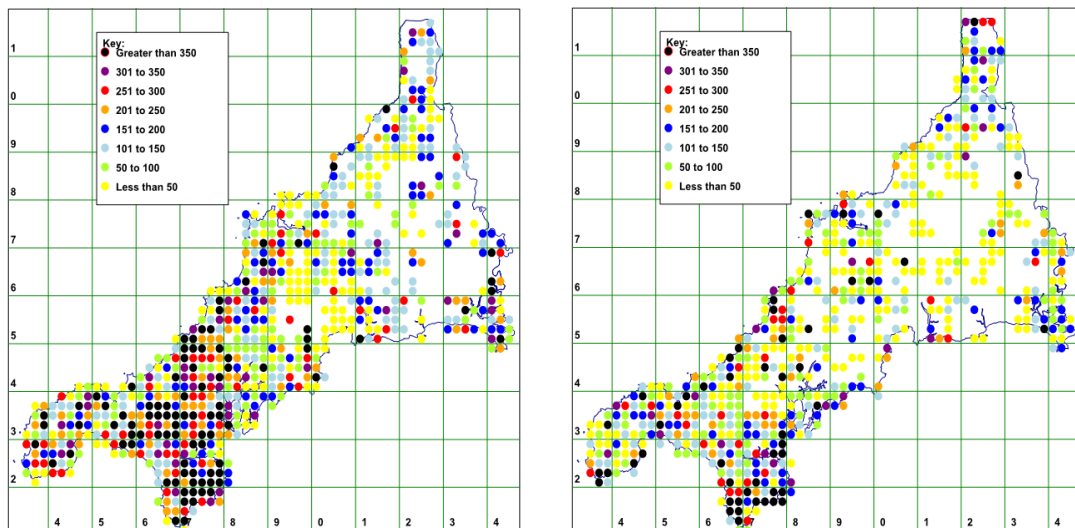
2006 saw the beginnings of a resurgence in vascular plant recording as the focus of a new Flora of Cornwall gave impetus. Map 1 demonstrates that there were three main centres of recording activity in 2006. These were the Camborne-Redruth area (centred on SW64), the Grampond-Probus area (SW94 and SW95) and the Looe-Polperro area (SX25). The latter two were mainly the result of arable weed surveys for the Farming and Wildlife Advisory Group. Some of those that contributed significant numbers of plant records were John Worth who provided a spread of records across Penwith and some from the Lizard, David Pearman who targeted Rare Plant Register species, Tony and Mary Atkinson who ranged across East Cornwall, and Dr. David Holyoak who supplied a spreadsheet of a thousand records of

interesting finds, mainly observed during Bryophyte surveys. A good haul of records were also made at each of the Botanical Cornwall Group field meetings.



Maps 1 & 2: the number of vascular plants records made in 2006 (left) and 2007 (right) per tetrad

During 2007 the spread of recording across Cornwall was remarkably even, with the main gaps in coverage running in a meandering band south from the far north east of Cornwall (SS21). Map 2 does show notable clusters of activity in Penwith (SW33 and SW43), to the east of Wadebridge (SX07) and on the Lizard. Thanks to the concentrated recording effort by Colin Wild (who lives in Helston), the dot map in his area is reminiscent of a virus spreading out from Helston, west, east and south onto the Lizard Peninsula. Elsewhere, arable field surveys for FWAG account for much of the records in SW94 and in Penwith, and the hotspot in SX07 was largely the result of surveys by Ken Preston-Mafham. Matt Stribley and Keith Spurgin provided records for the Truro area.



Maps 3 & 4: the number of vascular plants records made in 2008 (left) and 2009 (right) per tetrad

Recording activity was significantly boosted in 2008 as a result of the Cornwall County Council Biodiversity Improvement Grant, which funded travel expenses and GPS recorders. This enabled the targeting of under-recorded squares across Cornwall and, despite the poor summer, which significantly curtailed the number of suitable recording days, 2008 was a record year. The one-off BIG grant was managed by ERCCIS and the two v.c. Recorders.

It can be seen in map 3 that Colin Wild extended his sphere of influence northwards and continued to systematically surveying every 1 km square to the south of an approximate line from Ludgvan to Trelissick. Phil Pullen, who resides in England, near Plymouth, and made good use of his free bus-pass, targeted squares in south east Caradon. Matt Stribley provided records for the Truro area, John Worth supplied data for Penwith and a few areas further east and David Pearman continued to visit old sites for rarities. The Botanical Group meetings added further data.

Although, at the date of writing, 2009 is incomplete, it should prove to be as good a year as 2007, in terms of amount of recording activity. The BIG grant had not totally been spent in 2008 and so the remnants enabled further under-recorded squares to be targeted. Ken Preston-Mafham, in particular, surveyed a group of 1 km squares in the Bude area - at a distance from his home. Colin Wild continued to intensively survey his chosen block of West Cornwall and succeeded in ensuring that every 1 km square in his area, except for two, had more than 100 vascular plant taxa recorded (considerably more in some cases). The two that failed to meet the 100 threshold were slivers of coastline that will never support that many plant species.

As a result of contract work, most of the recording effort during the summer months, by the two v.c. Recorders, was concentrated on the SSSIs. They were tasked with searching for rare plants as a part of condition assessments of the SSSIs and, in the course of this contract work, re-found many old sites for rarities, discovered some new ones, visited many under-recorded parts of the SSSIs and generally beefed up the detailed knowledge of the SSSIs that were originally designated with a specific vascular plant assemblage. Unfortunately, the SSSIs tend to occur in the better recorded areas of Cornwall and the v.c. Recorders were unable to target many under-recorded squares in 2009.

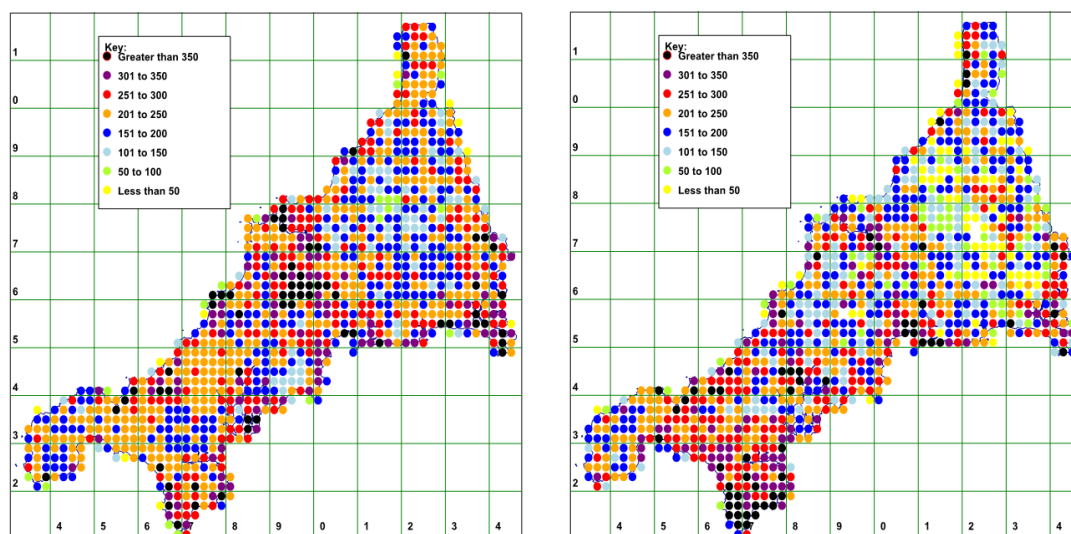
In addition, during 2009, a sizeable number of records were also obtained from Phil Pullen and various BSBI members on holiday in Cornwall, most notably Nicholas Montegriffo, who regularly stays in West Penwith and on the Isles of Scilly.

Progress towards the next Flora of Cornwall

680,000 vascular plant records were processed for the 1999 Flora (including historic data). Since 1999, 524,896 fresh vascular plant records have added to the Erica for Windows database. This might be taken to indicate that the re-survey is approximately $\frac{3}{4}$ complete, and certainly when one compares the maps showing the number of taxa per tetrad for the 1999 Flora with the present resurvey (maps 5 and 6) a $\frac{3}{4}$ complete estimate for the current resurvey could be considered reasonable. Many tetrads have shown a rise in the number of species recorded, most notably those on the Lizard Peninsula (Colin Wild) and in the St Austell and Par area (SX05), where Phil Hunt has been recording. Very few tetrads remain grossly under-recorded, and those with a shortfall compared with 1999 could have the deficit surmounted with relative ease.

However, a comparison of maps 5 and 6 gives a distorted view of current progress towards the next Flora of Cornwall. The reason for this is the changing nature of recording since 1999; in particular, the recent introduction of GPS receivers, which have resulted in a noticeable shift in the precision of grid references and have led to a change in the pattern of field recording. Whereas in the past recorders would produce a list of species found in a tetrad or 1 km square, or would record a six figure grid reference (hectare) and list all the plants in that general area, now with GPS readings they make lists for 10 metre square blocks (eight figure grid reference) or the plants in the immediate area of the GPS reading. The result is that the size of individual species lists is reducing over time, and at the same time many more lists are being generated. Overall the Flora is being recorded at a much finer resolution and huge numbers of additional records are being produced. Thus, to publish a comparable new Flora of Cornwall the number of vascular plant records that will be needed will be considerably larger than the 680,000 used in 1999, perhaps as many as 1 million post-1999 vascular plant records. So the resurvey is probably just over half complete rather than three-quarters. This

can perhaps best be appreciated by examining map 7 which shows the current state of recording at the 1 km scale and given the expectation that the vast majority of 1 km squares should exceed 100 taxa it is self-evident that the resurvey has a considerable way to go.

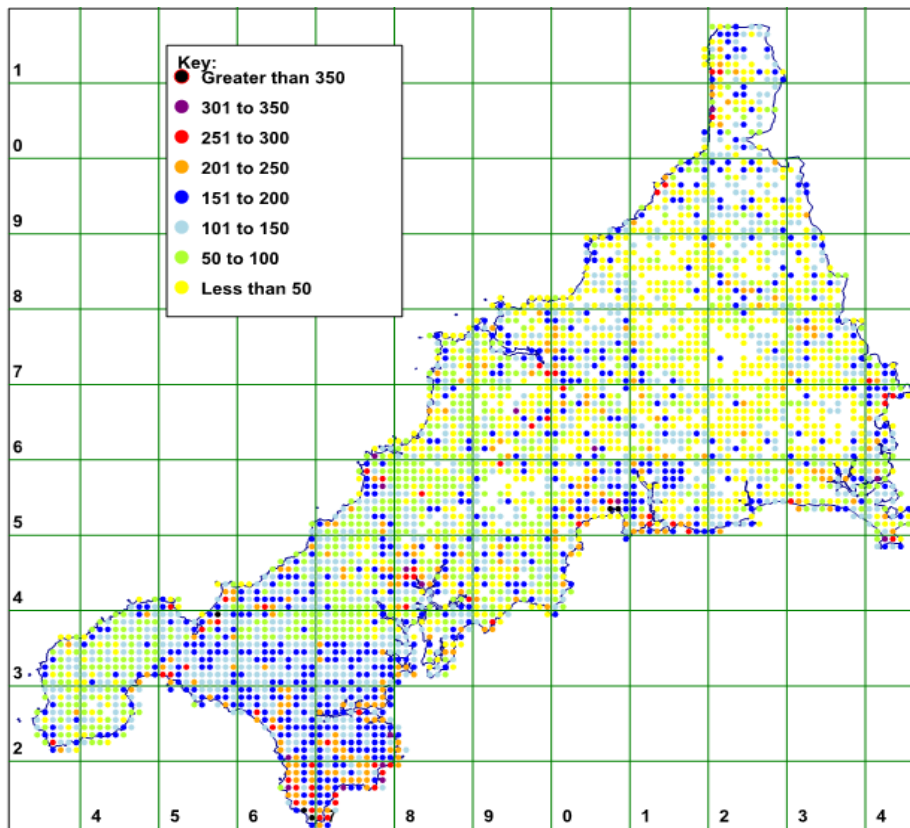


Maps 5 & 6: the number of vascular plants recorded between 1980 and 1999 (left) and the number of vascular plants recorded since 1999 (right)

Map 5 shows the number of vascular plants per tetrad that were recorded between 1980 and 1999, and essentially represents the state of our knowledge of the Cornish flora when the Flora of Cornwall was published (French, *et al.*, 1999). Every tetrad in mainland Cornwall (just over 1000) was surveyed during this twenty-year period with the majority of records made after 1987. It can be seen that SW94 area stands out as under-recorded. This agricultural area around Tregony was difficult to survey because of problems of gaining access to sufficient land. The central inland portion of East Cornwall (SX17, SX18 and SX27) also appears to be under-recorded, however, much of this area is genuinely species poor, especially the moorlands. The high counts for mid Cornwall (SW96) also stand out. These high values are partly due to the intensity of recording by Ian Bennallick, who lives nearby, however, it also reflects the diversity of habitats in that area.

Map 6 shows the number of vascular plants per tetrad that have been recorded since 1999. As has already been said it can be used as a crude, but poor, indicator of progress when compared with map 5. Nevertheless, it is useful to help focus future recording, especially those tetrads with less than 100 records, which should be prioritised for field surveys. The pleasing feature of this map is that there are very few tetrads without any post-1999 records, however, the large number with less than 100 records gives an indication of how much survey work needs to be done in the coming years.

Map 7 shows the degree of recording, since 1999, at the 1 km scale. It is the most telling map as it clearly shows the areas where future recording needs to be targeted and gives a better estimate of the magnitude of recording effort needed to complete the resurvey.



Map 7. The number of vascular plants recorded since 1999

Conclusion

Botanical Recording in Cornwall is enjoying a renaissance resulting from the decision in 2006 to resurvey the whole of Cornwall in order to publish a new Flora of Cornwall. Considerable progress has been made towards that goal with perhaps the halfway point in the fieldwork having been reached. Technological changes, especially the use of GPS receivers, have changed the resolution and methods of recording, have greatly increased the amount of data needed to produce a new Flora, and have expanded the usage of the accumulating data. Modest grant funding, in supporting travel costs and the adoption of new technology, has also proved to be an immense stimulus to recording activity, especially in far flung places.

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Fitch's Illustrations of the British Flora

Colin French

For sale – 'Illustrations of the British Flora. A series of Wood Engravings, with dissections of British Plants drawn by Fitch & Smith published in 1905 by Lovell Reeve & co, London, H/B, red leather binding, gold titles, 8vo, viii, 347pp, illustrated with drawings in b/w, annotated throughout by owner Alfred Hosking 21 Pendarves Road, Penzance, with dates and place specimen seen in Cornwall i.e. Penzance seashore October 1911, Luxulyan Valley 3/4/1916 etc, etc - an interesting record of local sightings in Cornwall - 1910/20's/30's.'

BSBI member Dr. Clive Lovatt, who is particularly interested in the Avon Gorge area, recently purchased a copy of Fitch's Illustrations of the British Flora which contained annotations made by Alfred Hosking of Penzance. The annotations were of plant records made in Cornwall and the Isles of Scilly, mainly between 1910 and 1930. Dr. Lovatt subsequently contacted me to find out whether I had knowledge of Alfred Hosking. I duly sent him a list of Alfred Hosking's records extracted from the Erica for Windows database, which mainly came from Thurston & Vigurs' 1922 Supplement, and requested that Hosking's records be transcribed or photocopied. He was keen to help, remembering the assistance Rosaline Murphy gave him some 20 years ago, when she extracted the notes contained in her copy of Swete's Flora Bristolensis with annotations by Edwin Wheeler, a homeopathic chemist from Bristol.

A couple weeks passed by and, completely out of the blue, the little book arrived in the post wrapped in swaddling clothes (bubblewrap). It was indeed once owned by Alfred J. Hosking of 21 Pendarves Road, Penzance and contained 167 Cornish records. These were handwritten in ink or pencil and were mainly from West Cornwall (see map 1.). There were also a couple of records from outside Cornwall such as *Spartina townsendii* at Poole Harbour in Sept. 1926. Apart from annotating the drawings with records, Hosking also noted down key characters in places, made the occasional sketch, and added a few local plant names.

To judge by the records themselves, Alfred Hosking was undoubtedly a good field botanist and his interest was evidently kindled by attending lessons run

by F.H. Davey at 3 North Parade, Penzance. Indeed, he penned 'the first plant botanised together by Davey and me was *Tussilago Petasites* (*Petasites hybridus*, Butterbur) near Love Lane, Penzance on 17/12/1907 at the first lesson.' He made no contributions to Davey's 1909 Flora of Cornwall, but undertook a number of field trips with Davey in subsequent years, to such places as Par and Prah Sands. He also spent time recording with E.A. Rees and W. Tresidder, who were both very active and proficient botanists. Some records were also made with other family members and one is attributed to Lily Hosking (*Ornithogalum umbellatum* at Tregadjack, Ludgvan, May 1923). It seems likely that he had property in Marazion, because there is a cluster of records in that area and several are located at 'Our Yard, Marazion.'

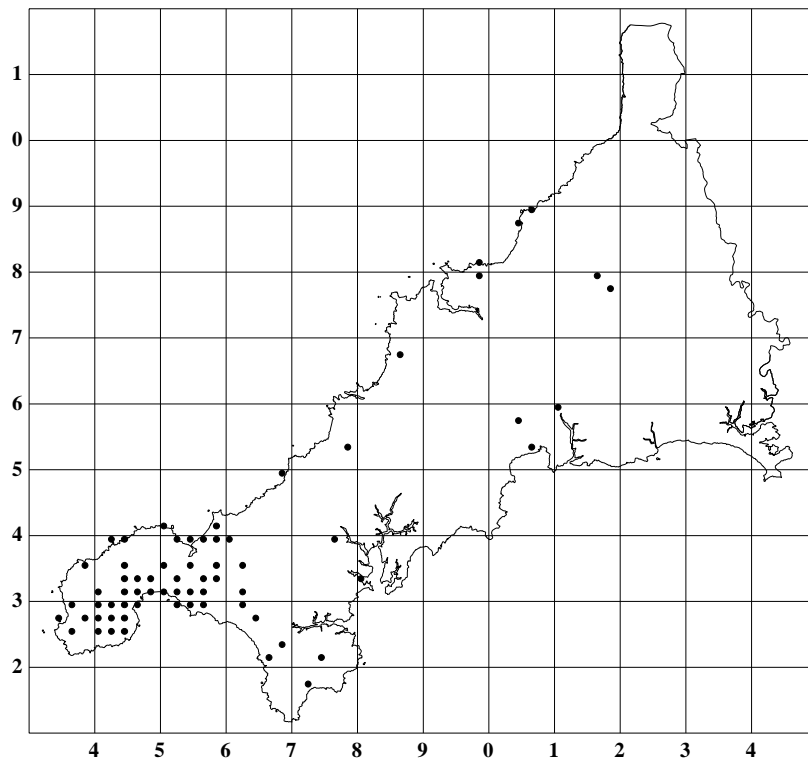
Amongst the 167 records for Cornwall and the Isles of Scilly are a number that provide additional information to some of his records that are published in Thurston & Vigurs Supplement, such as *Euphorbia peplis* on St Martin's, Isles of Scilly in 1920. This record was published in the Supplement, without locality and is important as it is the only record for St Martin's for this, now extinct, plant. Included in Hosking's jottings are some important new records of rare species and a host of interesting additions to our knowledge of more common plants. Some of these include.

- *Phegopteris connectilis* (Beech Fern) at Brown Willy, Sept. 1921.
- *Scandix pecten-veneris* (Shepherd's-needle) at Phillack and *Silene noctiflora* (Night-flowering Catchfly) at the Dynamite Works, Upton Towns.

- *Hyoscyamus niger* (Henbane) at Gwithian Towans.
- *Erigeron acer* (Blue Fleabane) at St Ives, Penzance and Marazion.
- *Hypericum montanum* (Pale St John's-wort) between Hayle and Carbis Bay.
- *Cicendia filiformis* (Yellow Centaury) at Skewjack Moor 29/10/1920.

He also gives the date for the discovery of *Ajuga genevensis* (Cornish Bugle) at Phillack by E.A. Rees as 3/9/1915.

Dr. Lovatt has very generously donated Alfred Hosking's annotated book to the BSBI v.c. 1 Recorder as 'plainly the little book is of both botanical and historical interest and should be looked after ... and made accessible for future Recorders ... I am only too aware that these things disappear from view in time (the late Noel Sandwith and I seem to be the only botanists to have seen White's annotated interleaved copy of his Bristol Flora and I doubt if it can now be traced.' Dr. Clive Lovatt produces Bristol Botany annually, in succession to Professor Willis, and is now working on the history of the recording in the Bristol area, mainly extending White's researches.



Map 1. The location of the records annotated by Alfred Hosking to Fitch's Illustrations of the British Flora

Important Plant Areas

Colin French

Plantlife is a driving force for the designation of Important Plant Areas (IPAs) across Europe. These are areas considered to be the best sites of international importance for plant diversity in its widest sense (vascular plants, lichens, bryophytes, algae, etc.). IPAs are defined as sites with exceptionally rich in threatened plants at European level, and/or outstanding assemblages of rare, threatened and endemic plants, and/or vegetation of high botanical value.

To qualify as an IPA, a site needs to satisfy one or more of the following site selection criteria.

- A. The site holds significant populations of one or more species that are of global or European conservation concern.
- B. The site has an exceptionally rich flora in a European context in relation to its biogeographic zone.
- C. The site is an outstanding example of a habitat type of global or European plant conservation and botanical importance.

IPAs are not a designation but rather aim to complement existing designations and provide a means to plan and facilitate plant conservation at the site and landscape scale, for example through the targeting of wider countryside measures such as agrienvironment schemes. IPAs are intended to support, inform and underpin existing protected areas in the UK such as Areas/Sites of Special Scientific Interest and Special Areas of Conservation.

In Britain the process of designating IPAs is coordinated by Plantlife and incorporates a partnership of botanical societies, land managing organisations, research institutes and government conservation agencies. As a part of this process, each BSBI v.c. Recorder was asked to make observations about the proposals for the future designation of IPAs for their areas. To this end, Plantlife provided each Recorder with a provisional IPA site list, which comprised hotspots for

a particular habitat (coincidence mapping of key species post 1987); Grade 1* or Grade 1 sites listed in Nature Conservation Review (Radcliffe, 1977); and Special Areas of Conservation.

They also circulated a sizeable list of IPA key species, which included, for Cornwall, such vascular plants as *Anagallis minima*, *Carex divisa*, *Cystopteris diaphana*, *Gentianella campestris*, *Geranium purpurea*, *Radiola linoides*, *Thelypteris palustris*, *Trifolium occidentale* and *Viola tricolor*. In addition, IPA consultation forms were provided so that supporting evidence could be provided as a part of the overall consultation.

The Response from Cornwall

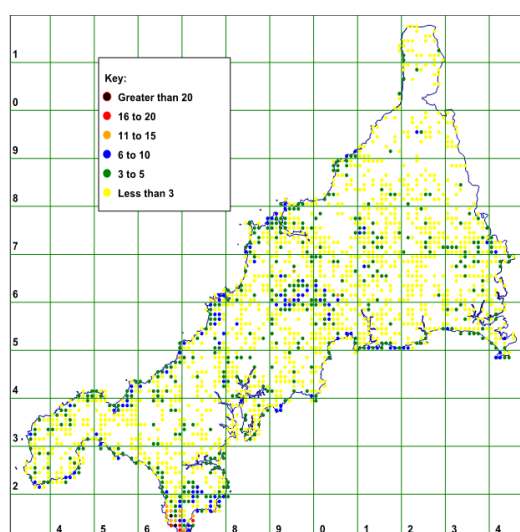
Using the material provided, it was decided to use the Erica for Windows database to independently assess what areas of Cornwall should be considered as candidate IPAs for vascular plants.

To achieve this the following procedure was followed.

- An 'IPA key species' status field was added to the Erica for Windows database and each of the IPA key species was flagged.
- A coincidence map was generated, which shows the number of IPA key species, recorded since 1987, in each 1 km square (see map 1).
- The candidate IPAs, as suggested by Plantlife, were overlain on the map (see map 2).
- The candidate areas were compared with the underlying coincidence map and where appropriate some of the candidates were dropped and new ones proposed (see map 3).
- An IPA consultation form was completed for each candidate IPA

Map 1 categorises the number of IPA key species found, since 1987, in every 1 km square of mainland Cornwall. Remarkably the majority of 1 km squares have IPA key species present. However, from the point

of view of defining IPAs, a number of obvious hotspots can be seen on the map. Clearly the Lizard Peninsula (SW61, SW71, etc.), particularly the western side, stands out as the primary hotspot for Cornwall. The next major large hotspot can be seen in central Cornwall covering the mid Cornwall Moors, including Goss Moor and Breney Common (SW96, SX06, etc.). Elsewhere, the IPA key species tend to be concentrated along long tracts of the coastal fringe of Cornwall with landward incursions corresponding with the Hayle Towans complex (SW53, SW54), Penhale Towans (SW75) and the mouth of the Camel Estuary (SW97).



Map 1. Coincidence map showing the number of IPA key species recorded since 1987

Map 2 overlays the provisional IPA site list for Cornwall on the coincidence map generated from Erica for Windows. This provisional list includes sites that are primarily valued for other plant groups like the Lichens and Bryophytes. This helps to explain why several of the proposed sites lack supporting vascular plant data, such as Dizzard – Millook Cliffs.

Based purely on their vascular plant content, it was felt:

- Most of the suggested sites were eminently suitable IPA candidates.
- Newlyn Downs, Carrine Common and other outlying important heaths should

be included within the Mid Cornwall Moors IPA.

- The Fal and Helford Estuaries, Boconnoc Park (though good for lichens) and most of the Tintagel to Marsland Coast are untenable as provisional IPAs and should be dropped from the list.

There are other parts of Cornwall, which stand out as potential IPAs, such as the Camel Estuary and Hayle and the Towans, the coast from Land's End to Loe Pool and from Looe to Penlee Point (see map 3).

Map 3 shows the revised list of potential IPAs for Cornwall, based on coincidence analysis of the Erica for Windows database. The dark blue ellipses are the proposed IPA sites, suggested by Plantlife, that should be retained, and those in red are extra sites for consideration based on the coincidence mapping exercise.

Note

The three overlapping ellipses between Tintagel and Marsland (see map 2.) have been reduced to just one covering the Tintagel-Boscastle area where there is a concentration of key species.

The coastal sites westwards from Newquay, all the way round to the Lizard, could be grouped together to form one large IPA encompassing the entire coastline from Newquay to the Lizard plus the wider expanses of sand dunes at Penhale and Gear, and between Godrevy and Lelant.

Results

Following the consultation process Plantlife have formally identified 150 IPAs have for the United Kingdom of which 16 are in Cornwall and the Isles of Scilly. The Cornish sites are.

1. Boconnoc Park, noted for lichen interest.
2. Fal & Helford, noted for assemblages of vascular plants, marine algae and the presence of important habitat (Atlantic Salt Meadows).
3. Isles of Scilly, noted for lichen and bryophyte assemblages.

4. Land's End, noted for lichen assemblages.
5. Lanhydrock Park, noted for lichen assemblages.
6. Lelant & Gwithian Towans to St Agnes, noted for vascular plant assemblages and habitat.
7. The Lizard, noted for habitats, lichens, vascular plants, bryophytes and stoneworts.
8. Mid Cornwall Moors, noted for habitat and vascular plants.
9. North Cornwall & Devon coastal woods, noted for lichen assemblages.
10. Penhale Dunes, noted for bryophyte and lichen interest.
11. Plymouth Sound and estuaries, noted for marine algae and habitat interest.
12. Polruan to Polperro, noted for vascular plant interest.
13. St Austell China Clay Pits, noted for bryophyte interest.
14. St Just Moors (Lower Bostraze and Leswidden), noted for desmid and bryophyte interest.
15. West Cornwall Bryophyte Sites, metallophyte bryophyte communities.
16. West Pentire fields, noted for vascular plant interest.

By comparing the final list with the provisional list of sites identified using the Erica for Windows database, it can be seen that.

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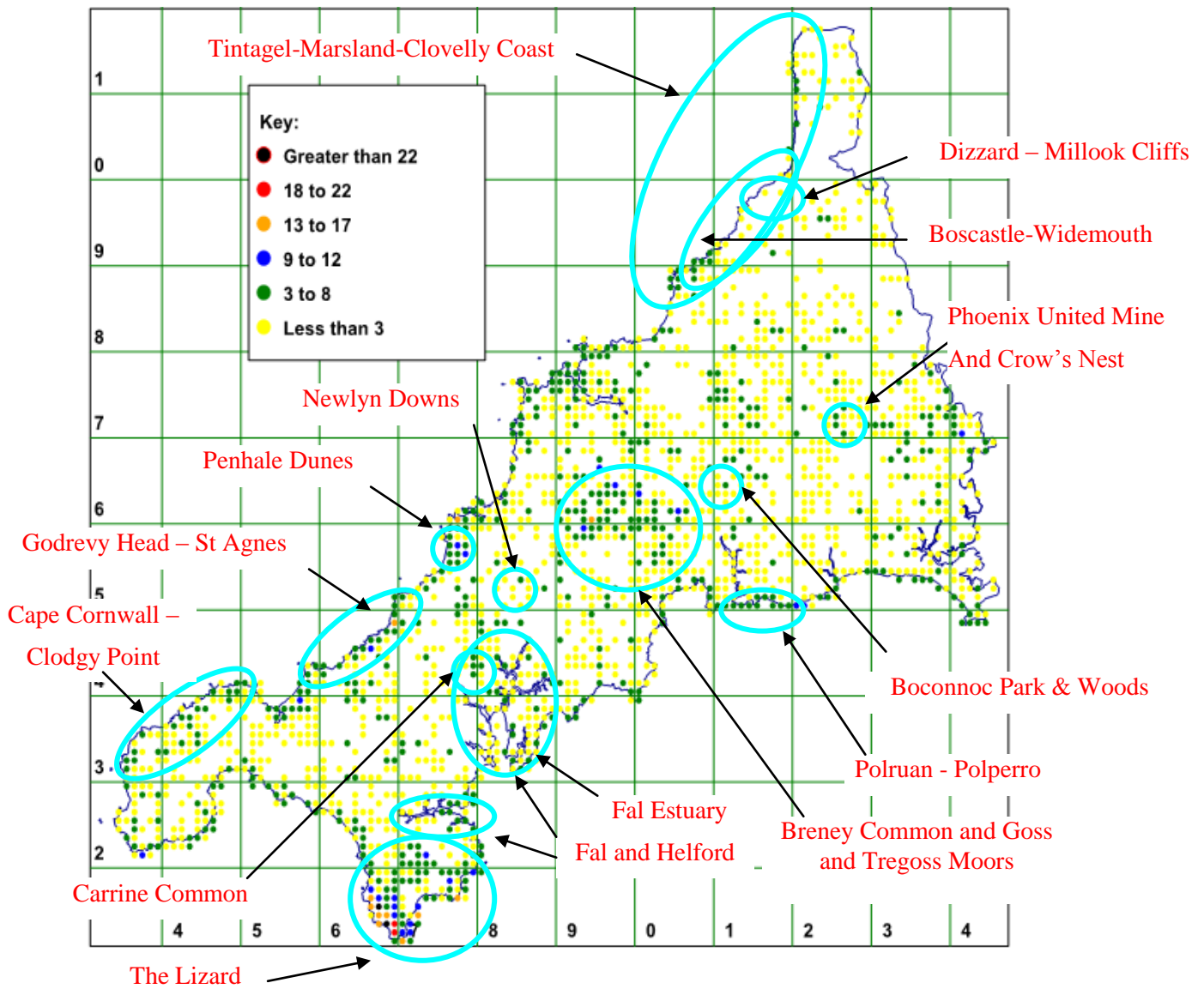
The coastline from Cape Cornwall to Loe Pool, Looe to Penlee Point, Carrine Common, the Camel Estuary and Tintagel to Boscastle never made the final vascular plant list. It is hoped that Carrine Common and other important isolated heaths such as Newlyn Downs, Ventongimps Moor and Silverwell Moor have not been dropped from the IPA list but have instead been included within the Mid Cornwall Moors IPA.

The West Pentire arable fields have been added to the list, despite not having been part of the consultation process.

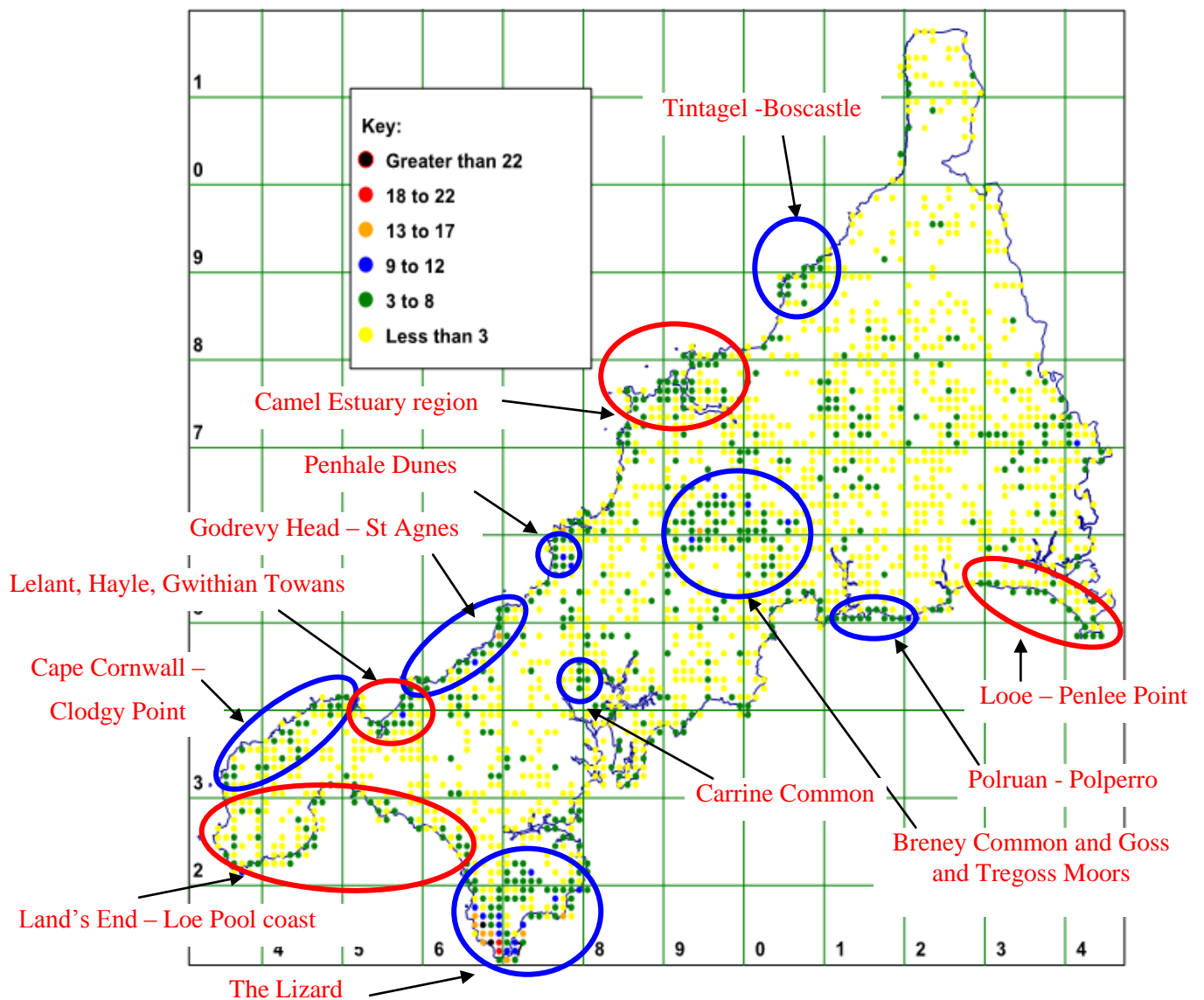
Penhale and the Isles of Scilly are not recognised for their vascular plant interest whilst Fal & Helford is, despite having very little vascular plant interest.

What next?

For Plantlife the next phase will include mapping the IPA areas and assessing how best to conserve IPAs. This process has begun and for a few of the sites a summary description has been placed on the Plantlife Website along with a detailed map showing the boundary of the site.



Map 2. Coincidence of IPA key species showing the proposed Important Plant Areas



Map 3. Coincidence of IPA key species showing the amended proposals for Important Plant Areas

The decline of *Illecebrum verticillatum* (Coral-necklace) in Cornwall

David Pearman

Illecebrum verticillatum is a small annual which elongates to form a many-stranded plant over each summer, which flowers late in the season, and is often scarcely visible before late July. It is usually killed by frosts, but well-grown plants, presumably belonging to the previous year, have been noticed in West Cornwall as late as January. It occurs in pools or seasonally inundated acid soils, found in heathy and sandy grassland but more often on wet gravelly tracks (including rides in forestry plantations) and on the edges of ditches and pools. It is spread by seeds, though I have successfully rooted a fragment of stem. In West Cornwall associates noted in 2005 included *Hydrocotyle vulgaris*, *Hypericum elodes*, *Isolepis setacea*, *Juncus bulbosus*, *Lythrum portula*, *Myosotis laxa*, *Potamogeton polygonifolius*, and *Ranunculus flammula*. On Bodmin Moor in 2007 associates were *Hypericum elodes*, *Juncus articulatus*, *J. bulbosus*, *Lythrum portula*, *Myosotis laxa*, *Potamogeton polygonifolius*, and *Ranunculus flammula*. Murphy (1994) gives associates on tracks as *Cicendia filiformis*, *Gnaphalium uliginosum* and *Radiola linoides*.

The first record from Cornwall (and for the British Isles) is traditionally given as 1666, given in Davey (1909) as from Merrett (1666). I am not sure if Merrett's record of 'alsine floribus ad instar Polygoni marini, ad singulas alas albis...sent to me from Cornwall' actually refers to this species, but Ray's record from Penzance published in 1670 definitely does (Ray 1670). But Chris Preston has alerted me to the fact that this published record is based on the fact that he recorded this plant in his tour through the West Country in June 1662, possibly, but not entirely clearly, from St Columb (Raven 1950). The position is confused by the fact that his herbarium specimen comes 'from marshes near the extreme corner of Cornwall'.

It was not until 1846 that this plant was found elsewhere in Britain, and then in Kent. It was not found in its current stronghold, the New Forest, until the 1920s.

Davey (1909) cites many records, nearly 40 in total. Almost half are from West Penwith, twelve from the Carnmenellis granite and its surrounds, and the rest from Truro up to Goss Moor and east to Helman Tor (SX06), with one on Bodmin Moor. Thurston & Vigurs (1922) only add five more, but Margetts & David (1981) cite 18 records, many from new sites throughout its range in Cornwall.

New sites from West Penwith in the 1990s were reported in French *et al.* (1999), though they correctly attributed the serious decline to loss or change of habitat. But the major event, and really the only optimistic note for many years, has been the finding and spread of records from Bodmin Moor.

It is essential to stress the absolute requirement of *Illecebrum* for both open ground and also regular disturbance. With the decline of mining and more lately the decline in cattle and sheep numbers (the plant thrives on hard grazing) and the gradual falling into disuse of common land, there is much, much, less suitable habitat.

Since 2005 I have searched all the sites in Cornwall where *Illecebrum* has been seen since 1970, with the results shown in the appendix. For this note I intend to divide the county into four regions.

West Penwith. This has always been the centre of the distribution in Cornwall, with the greatest numbers of sites. Table 1 shows that only a few of the tetrads listed by Davey had lost all of their sites by then, and at least six sites persisted up to the 1980s and 1990s. The whole area is very overgrown, with no mining or quarrying carried on anywhere except at the large

quarry at Castle-an-Dinas. Grazing seems to have ceased on almost all common land sites, other than near Morvah, though we have seen fencing going up at two sites, one near Carnaquidden, which might be the precursor for a fresh attempt. Other older Penwith sites that have been searched are Porthgwarra (last seen 1973) and Trink Hill (1975).

Carmmenellis Granite and area, including the Lizard. This is the area that was the first to lose most of its sites, and has now lost all. The only post-war records were from Cargenwen Reservoir (last seen 1975), Carmmenellis Moor (1961), Tretheague Moor (1960) and Croft Pascoe on the Lizard (1971). This area is less exposed than West Penwith, and thus less open, and most mining finished in the nineteenth century.

Mid-Cornwall Moors. In this area many of the sites were associated with china clay, and it is not certain why it is so rare now when there is still much disturbance and waste ground available. The longest-lived site is on Brynn Moor, where Ian Bennallick found colonies in 1987 on the site of a miniature railway. However by 2005 all was overgrown, sometimes very densely indeed, and the few plants found were in the lowest pool, seen after much perseverance (from Ian!), surrounded by dense willow carr and gorse. The only other post-war records are from Retire Common, (1983), Goss Moor (1981) and once on china clay waste near Indian Queens (1995).

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Bodmin Moor. In local terms the history of the sites on Bodmin Moor, which are by far the most healthy today, is very recent. I have traced just one record before 1960, that in Davey (1909) from Bradford Bridge, St Breward, a site where it still occurs. I suspect lack of botanizing was the reason rather than lack of records, since the habitat must have been much the same for a very long time – heavily-grazed grassland with ruts and little pools, often with a firm substrate beneath. After 1909 the next records were from around 1960, from Bedrawle, Rose and Bradford Bridge again, and in recent years more small sites have been discovered. In terms of numbers, well over 90% of the Cornish population is here.

The future

The Bodmin Moor sites seem quite secure. All the others are doomed unless active management is reinstated at their sites. Of course it is possible that new populations may arise from seed-banks (though we know nothing about seed-longevity, other than it seems to be relatively long-lived), but what is really needed is management, disturbance, traffic and grazing in West Penwith.

Acknowledgements

The data displayed and used in this paper has come from the Erica database maintained by Colin French, and I am grateful to him for permission to use it, as well as for his records. I am grateful too for help from Rose Murphy and Ian Bennallick.

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Table 1. The number of tetrads for each 10km square where *Illecebrum* has been recorded in Cornwall, and the date-class of the last record

10km square	Total	Pre 1909	1910 - 1945	1946 - 1980	1981- 2000	2001 - 2009
West Penwith						
SW32	5	2		2		1
SW33	2			1		1
SW42	1	1				
SW43	12	4	1	2	1	4
SW53	3		1	2		
SW54	1	1				
Total	24	8	2	7	1	6
Carmenellis Granite and area						
SW52	1	1				
SW62	4	4				
SW63	4	2		2		
SW71	1			1		
SW72	3	2		1		
SW73	4	3		1		
SW83	1	1				
SW84	1	1				
Total	19	14		5		
Mid -Cornwall Moors						
SW85	1	1				
SW95	3	1	1		1	
SW96	5	1	1		2	1
SW97	1	1				
SX05	2		2			
SX06	3	2		1		
SX16	1	1				
Total	16	7	4	1	3	1
Bodmin Moor						
SX17	3			1	1	1
Grand Total	62	29	6	15	7	5

List of records of *Illecebrum verticillatum* (post 1999 records or searches are in bold)

Tetrad	full	Location	Year	Recorder
SW32Q	3721	Porthgwarra searched 2007	1973	Mr B.Boothby
SW32R	365224	Tol-Pedn - Porthgwarra-Roskeveral searched 2007	1973	Miss P.J. Renwick
SW32Z	395287	Tredinney Common 1 small patch	1995	Dr C.N. French
SW32Z	395284	just W of Tredinney numerous plants on wet, old track	1995	Dr D.T. Holyoak
SW32Z	384286	Tredinney Common many plants at edge of pool	1995	Dr D.T. Holyoak
SW32Z	39402876	Tredinney Common in old China clay workings, in small pool, by larger pool	2008	Dr C.N. French
SW33W	396332	Woon Gumpus Common	1991	Dr C.N. French
SW33W	39473371	Woon Gumpus Common W side, where stream crosses path. Dozens.	2008	Dr C.N. French
SW33W	39733373	Woon Gumpus Common N.side, by pool in track, well over 100 plants	2008	Mr D.A.Pearman
SW43D	418367	Porthmoina Valley	1989	anon
SW43D	41853664	Porthmoina Valley 1 patch in stream above cliff-edge	2005	Mr D.A.Pearman
SW43D	41823668	Porthmoina Valley in water at stream edge	2005	Mr D.A.Pearman
SW43D	418367	Porthmoina Valley in hollow above mine buildings	2006	Mr P.J. Worth
SW43D	417366	Porthmoina Valley 1 patch in stream above cliff-edge	2006	Mr P.J. Worth
SW43H	4334	Lanyon Farm by ford	1981	Miss B. M.Sturdy
SW43H	4334	Lanyon Farm	1981	Miss R.M Phillips
SW43H	42273424	Lanyon Farm by ford, in water on stream edge 1 plant in 2007	2005	Mr D.A.Pearman
SW43H	42253422	Lanyon Farm a few clumps	2008	Dr C.N. French
SW43I	434368	N. side of Hannibal's Cairn	1989	J.M. Lawman

SW43I	43183701	S. of Higher Porthmeor c. 50 plants on track 5 plants in 2007	2005	Mr D.A.Pearman
SW43I	43353689	S. of Higher Porthmeor 3 plants further up track c 8 in2008	2005	Mr D.A.Pearman
SW43I	43353689	S. of Higher Porthmeor on gravelly flooded track	2009	Mr I.J.Bennallick
SW43M	45123479	Higher Ninnis, N.E.of scattered plants on SW to NE track, very wet	2009	Mr I.J.Bennallick
SW43S	465356	Carnaquidden searched 2005	1975	anon
SW43S	4635	Carnaquidden searched 2005, very overgrown	1984	Miss B.M.Sturdy
SW53D	501371	Trink Hill searched 2005	1975	anon
SW63M	653352	Cargenwen Reservoir	1975	Dr A.C. Leslie
SW71J	7219	Croft Pascoe Plantation searched 2004	1971	anon
SW95J	926582	SE of Indian Queens Few small patches on edge of ditch in china clay spoil searched 2005 - landscaped	1995	Dr D.T. Holyoak
SW96F	9360	Goss Moor searched 2005	1981	C.F. Steeden
SW96W	983630	Brynn Moor	1987	Mr I.J.Bennallick
SW96W	9863	Brynn Moor disused minature railway grounds	1987	Mr I.J.Bennallick
SW96W	984629	Brynn Moor disused minature railway grounds	1987	Mr I.J.Bennallick
SW96W	983630	Brynn Moor shallow pond edges and on moist gravel	1992	Mr I.J.Bennallick
SW96W	983629	Brynn Moor	1995	Mr I.J.Bennallick
SW96W	984629	Brynn Moor	1995	Mr I.J.Bennallick
SW96W	98356285	Brynn Moor Many plants on bare ground	1998	Mr I.J.Bennallick
SW96W	98356285	Brynn Moor not as plentiful, as scrub enclosing, but still some quantity	1998	Mr I.J.Bennallick

SW96W	98316303	Brynn Mill, S of large patch on edge of pool	2005	Mr I.J.Bennallick
SW96W	98356303	Brynn Mill, S of small patch on edge of pool	2005	Mr I.J.Bennallick
SW96W	98286297	Brynn Moor two patches, 2x1m	2005	Mr I.J.Bennallick
SW96W	998638	Retire Common	1954	R. W. David
SW96W	9963	Retire Common searched 2009	1981	Mrs A. Hathway
SX17C	1775	Bradford Bridge	1988	Mrs M.G.C. Atkinson
SX17C	118755	Bradford Bridge	1988	Mrs M.G.C. Atkinson
SX17C	118755	Bradford Bridge several good patches	1990	Mr R.S.Cropper
SX17C	116756	Delford Bridge	1991	Mrs M.G.C. Atkinson
SX17C	1175	Bradford Bridge on low stony tail of island in river	1994	Mrs M.G.C. Atkinson
SX17C	1175	Delford Bridge in meandering gulleys	1994	Mrs M.G.C. Atkinson
SX17C	1074	Pendrift Downs, to De Lank River Pool has been considerably trampled in the past and is a mosaic of small hummocks and water filled hollows	1994	Mrs M.G.C. Atkinson
SX17C	1175	Delford Bridge	1997	Mrs M.G.C. Atkinson
SX17C	11487577	Delford Bridge A few plants in two separate ditches, south of the de Lank.	1999	Mr I.J.Bennallick
SX17C	1175	Delford Bridge	1999	R. FitzGerald
SX17C	11487577	Delford Bridge several plants in ditches	1999	Mr I.J.Bennallick
SX17C	11547576	Delford Bridge patch 1.3 x 0.4 m.. shallow water at edge of small river	2006	Dr D.T. Holyoak
SX17C	11137497	Nr S. Penquite a large patch just over a square metre under wires opposite the entrance to South Penquite pet care	2006	Mr M. Taylor
SX17E	108781	Nr Mellon Farm, Bodmin Moor in shallow margins of stream that is a tributary of the River Camel	1991	Mrs M.G.C. Atkinson
SX17C	11887552	Bradford Bridge small bare area by side of river	2007	D.A & A.V. Pearman

SX17C	11847544	Bradford Bridge on low stony tail of island in river	2007	D.A & A.V. Pearman
SX17C	11467593	Delford Bridge seasonal wet areas and banks of river	2007	D.A & A.V. Pearman
SX17C	11447581	Delford Bridge seasonal wet areas and banks of river	2007	D.A & A.V. Pearman
SX17C	11457581	Delford Bridge seasonal wet areas and banks of river	2007	D.A & A.V. Pearman
SX17C	11617563	Delford Bridge seasonal wet areas and banks of river	2007	D.A & A.V. Pearman

Coral-necklace *Illecebrum verticillatum* Bradford Bridge SX1175, 2007



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Bryological Field Meetings 2006 - 2007

Nicholas de Saumarez

Rocky Valley and Tintagel (SX08), and Coverack (SW71) - 11th & 12th February 2006

Saturday

Our first meeting of the year made a wonderful start with clear sky and warm sunshine. The main interest in selecting Rocky Valley (SX0789) was to re find the uncommon liverwort *Dumortiera hirsuta* which had all but been swept away during the storms of 2004. Our walk down to the river to where we could enter the water and begin our search, was first to provide further interest. The liverworts *Cololejeunea minutissima*, *Metzgeria fruticulosa* and *M. furcata* were soon found and examined as were, a little later, *Frullania dilatata*, *Lejeunea lamacerina*, and *Lophocolea bidentata*.

We now entered the stream, and began to walk back up it, examining the bank for the *Dumortiera*. A very small patch was soon found in a recess in the bank, and that was all until we were nearly at the end of our wading, when two further patches were found by Roy; one of a fair size, and a smaller one which happily displayed fruiting material.

Following this discovery, we continued our walk down the edge of the stream noting such plants as *Brachythecium plumosum*, *Bryum radiculosum*, and *Trichostomum brachydontium*. At one point, some of us crossed the stream to examine some large patches of the moss *Campylopus fragilis* across the river. This plant was particularly interesting because of a liberal sprinkling of broken off leaf tips, which gave the moss a whitish covering.

Other plants seen before taking our lunch on a rock by the river included the mosses *Eucladium verticillatum*, *Trichostomum crispulum*, *Schistidium maritimum*, and *Bryum pseudotriquetrum*. The liverwort *Saccogyna viticulosa* was also seen before we made our way to Minster Church at Tintagel (SX0588).

Parking on the road above the Church, we were soon confronted by a mass of bryophytes as we made our way down the path. The first of these was a wonderful display of *Schistostega pennata*, otherwise known as Goblin's gold, in a number of holes in the bank. With the sun shining, the glowing green lights of the plants protonema made a breathtaking sight which we were able to capture on film, with varying success. Other plants seen included the mosses *Cirriphyllum piliferum*, *Hypnum resupinatum*, *Rhynchostegiella tenella*, *Tortella nitida* and *Hookeria lucens*, and the liverworts not seen earlier such as *Cephalozia bicuspidata*, *Plagiochila asplenioides*, and *Phaeoceros laevis*.

Sunday

The purpose of this day was to walk from Coverack (SW7818) to Black Head (SW7716) and back, via Chynhalls Point (SW7817). As it turned out, Black Head revealed little due to the drought which left not very much to see. The first plant to cause excitement however, was totally unexpected. At the very start of our walk, we came across large patches of the moss *Dialytrichia mucronata*, which turned out to be a new species for v.c. 1. Further on, as we were climbing to the top path leading to Black Head, we found *Ulota phyllantha* growing on a small tree. Then some of the more unusual plants began to appear.

The first of these was the moss *Grimmia lisaie*, which was to be seen frequently along the path - in one case accompanied by *Pleurochaete squarrosa*. However, the prize of our outward journey turned out to be the rare liverwort *Gongylanthus ericetorum* (only to be seen in Cornwall), which was found by Roy in a small disused quarry. This was a particular joy because when we arrived at Black Head, it was no where to be seen due to the drought. The quarry also produced *Hypnum jutlandicum*, *Dicranum scoparium*, *Campylopus introflexus* as well as the liverwort *Fossombronia husnotii* found by Paul Gainey.

Following the disappointing visit to Black Head, we now followed the coastal path back to Chynhalls Point noting *Trichostomum brachydontium*, *Brachythecium populeum*, *B. glareosum*, and *B. mildeanum* on the way, and the liverwort *Porella arboris-vitae*.

On our arrival at Chynhalls Point, the arid conditions were found to be the same as Black Head. However, one new plant was found in the shape of *Tortula viridifolia*; a plant not seen before by the group, but apparently quite frequent along this coast. After this, we returned to the car park vowing to return one day following a long spell of rain!

Bodmin area (SX06, SX17, SX18) - 29th & 30th April 2006

Saturday

Our second meeting of the year was again accompanied by excellent weather. This was preceded by heavy rain earlier in the week, which made for ideal bryologising conditions. Our first port of call was at Respryn Bridge (SX0963) where the main interest was for the examination and recording of plants in a nearby railway tunnel (SX0962) which was thought to contain a number of interesting species. However, before we set off there, our leader for the day - Ken Preston-Mafham, took us in the opposite direction to see the liverwort *Nowellia curvifolia*, growing on a rotten log. It made a wonderful sight as it formed a large patch anchored to the log by abundant rhizoids, and coloured a purplish red with coppery-red tints. Following this, we made our way back to the car park noting common mosses such as *Plagiothecium succulentum* and *Pogonatum aloides* on the way, and at the bridge the liverwort *Riccardia chamedryfolia* growing on a tree root near the waters edge.

We arrived at the tunnel shortly afterwards, and were very pleased to see such a wide array of plants growing on the walls. These included such common mosses as *Brachythecium rutabulum*, *B. populeum* and *Cratoneuron filicinum*, and also some decidedly uncommon ones too. Perhaps the most exciting of these were *Tortella tortuosa* and *Rhynchostegium murale*; both of which are extremely rare in Cornwall. Liverworts too were in evidence, and a number were recorded including *Lejeunea lamacerina* and *Lophocolea bidentata*. All together, we recorded 24 species on the tunnel walls before returning to the car park for lunch.

Following our meal, we moved onto the next site which was at Dunmere Wood (SX0467) to the north west of Bodmin. The main purpose of this visit was to see the liverwort *Trichocolea tomentella* that grows on the bank of a small stream. It was soon found, and proved to be the loveliest of plants upon which much film was expended. Other plants nearby were also noted such as the mosses *Atrichum undulatum*, *Hookeria lucens*, *Pseudotaxiphyllum elegans*, and some *Sphagnum* spp. which included *S. fimbriatum*.

Our last stop of the day was to St Bellarmin's Tor (SX1370). Parking by the side of a narrow road, we made our way up the path to the Tor recording as we went. A number of common plants were seen including a display of *Schistostega pennata* that exceeded even that seen earlier in the year at Minster Church in its display of glittering green lights. Walking up the path to the Tor itself, we were presented with terrain that had enormous possibilities for bryophytes. Clearly the site needed a day or two to do it justice, but nevertheless, during our short stay we were able to record some 93 species. These included the mosses *Aulacomnium palustre*, *Brachythecium plumosum*, *Cirriphyllum piliferum*, *Hyocomium armoricum*, *Pleurozium schreberi* and *Trichostomum tenuirostre*. The liverworts were also plentiful with *Bazzania trilobata* looking particularly fine.

There was plenty, more to record here, but as time was getting on we left feeling that we must return at some point in the future for further exploration.

Sunday

The entire day here was spent at a wooded valley with a river running through known as 'Devil's Jump' (SX1079 and SX1080). Our walk to the river was uneventful except for a water trough which provided us with *Philonotis fontana*, and some more common species

which grew around its base. However upon our arrival at the river recording began in earnest, and it was not too long before we began to find species that were new to us. One of the first things we noticed was a mass of *Platyhypnidium alopecuroides* growing on rocks in the river. This was a new species to the group, but it seemed to be frequent at the point where we met the river. It differs from *P. riparioides* which we also saw in that the leaves on the branches are closely packed when wet, giving them a cylindrical appearance (julaceous).

From this point on, we began to record plants at a fair rate with such mosses as *Brachythecium rivulare*, *Bryum pseudotriquetrum*, *Fissidens curnovii*, and *Plagiomnium undulatum*. Liverworts were frequent too, with *Diplophyllum albicans*, *Frullania dilatata* and *F. tamarisci* being noted. However, it was later in the afternoon that Ken found what we had all been hoping to see. It was the moss *Blindia acuta*, which he found up the river bank in fair quantity, and its discovery soon had the cameras clicking. Later, it turned up again when Mark Pool found it growing on a rock face some way up from the river with a large patch of *Palustriella commutata* nearby.

In all, we recorded 159 species here, making a grand total of just on 300 species for the two days. Surely, this was our most successful weekend yet!

Trenarth (SW72) and Roseland Forstal (SX26) - 21st & 22nd October 2006

Saturday

This weekend was organised to visit sites that had so far been unseen by bryologists, and was made possible by the kind permission of the landowners concerned, who gave us free access to their land. Once again we were very pleased to have Mark Pool with us to aid identification, and David Holyoak, our county recorder.

The first meeting was at 'Trenarth' (SW7528), where we assembled outside the estate house at 10.30am, and began to record almost at once bryophytes growing on the walls and paths there. These included a number of common mosses such as *Bryum capillare*, *Didymodon rigidulus*, and *Orthotrichum diaphanum* which was found attached to a bird house situated in the courtyard.

Moving up a lane from the house, we continued to record noting such mosses as *Grimmia pulvinata* var. *africana*, *Hookeria lucens*, and *Atrichum undulatum* amongst others. At the top of the lane, we were very surprised to find a field full of *Galinsoga* sp. (Shaggy or Gallant-soldier), whilst just outside the gate a large patch of *Didymodon nicholsonii* was growing on the ground which attracted interested.

We now turned down a path to the river below, but were soon diverted from it by the appearance of a large arable field on our right. This move proved to be the highlight of the day because here, and at other arable fields on the estate, we were to find a fine array of plants not seen before by the group. These included *Bryum donianum*, *B. klinggraeffi*, *Didymodon insulanus*, *Trichodon cylindricus*, *Epipterygium tozeri*, *Phascum cuspidatum*, and the diminutive moss *Aphanorrhagma patens*. Liverworts were also found such as *Riccia glauca* and *R. subbifurca* which were also very small, but were exciting to look at under the glass. A small quantity of *Misopates orontium* (Weasel's-snout) was also seen here.

Following this excitement, we walked down to the river through the wood, not finding anything of particular note on the way. Here, we enjoyed our lunch sitting on a wall by the bridge before setting off again on a path through the bottom of the wood recording as we went. Here we noted a number of liverworts growing as epiphytes on trees such as *Metzgeria fruticulosa*, *M. furcata*, and *M. temperata*. This was particularly fortuitous, because it provided the opportunity for David to explain the differences between them.

Continuing down the path, other common species began to appear such as *Cryphaea heteromalla*, *Neckera complanata*, *N. pumila* and *Cirriphyllum piliferum* as well as some liverworts such as *Diplophyllum albicans*, *Pellia endiviifolia*, and *P. epiphylla*.

A small diversion now took place from the path to visit a piece of damp woodland with a stream running through it. However, this proved to be a little disappointing with regard to the number of species growing there, although we were able to add *Platyhypnidium riparioides* to the list along with other common plants such as *Calliergonella cuspidata*.

We now made our way back to the cars, but were delighted to find that *Epipterygium tozeri*, already seen in the arable fields, was growing in fair quantity on the right hand vertical sides of the bank by the path. The arable fields were also examined either side of it, and plants already mentioned were recorded. There was however, one last excitement for the day when both David and Mark diverted into an apple orchard where they found Mistletoe (*Viscum album*) growing on one of the trees. So ended a good day's bryologising with the weather unexpectedly pleasant; something which was not to be the case the following morning.

Sunday at Roseland Forstal (SX2763)

This meeting will be remembered by rain that was torrential for a good deal of the day, although it did brighten up during the middle of the afternoon. Undeterred however, we began recording in the drive to the property noting down common bryophytes such as *Neckera complanata*, *N. pumila*, *Thuidium tamariscinum*, *Eurhynchium striatum*, and *Brachythecium rutabulum* among others. Shortly after we started, we were pleased to welcome Alison Tyley who was a new member to the group, and whose obvious enthusiasm for bryophytes soon became evident.

Moving up from the drive, we made our way to an old quarry where further plants were seen including *Atrichum undulatum*, a vast sheet of *Cratoneuron filicinum* hanging down the cliff face, *Homalia trichomanoides*, *Hookeria lucens*, *Rhychoetegium confertum*, and *Thamnobryum alopecurum* among other plants.

There turned out to be quite a few other quarries in the vicinity which were connected by woodland where other plants were found such as *Cryphaea heteromalla*, *Orthotrichum affine*, *O. diaphanum*, *Ulota bruchii*, *Zygodon conoideus*, *Z. stirtonii*, and the liverwort *Frullania dilatata*.

At this point the rain was becoming torrential, and it was decided to take up the kind offer of the estate owners to have our lunch in their warm kitchen to dry out a little. They also gave us some refreshments which included some excellent home-made mushroom soup which helped to warm us up, and following this extremely kind and generous treatment to very wet bryologists, we were soon ready to continue recording in weather that showing signs of improving.

We began the afternoon wending our way up the hill through the woods noting down further species such as *Fissidens bryoides*, *F. taxifolius*, *Pleuridium subulatum*, *Pseudotaxiphyllum elegans*, *Pogonatum aloides*, *P. urnigerum*, and *Rhytidiadelphus triquetrus*. At the top of the hill, we came out at an arable field and continued there to record. Many of the species we had recorded at yesterday's meeting were also here, but two new ones caused some excitement due to their relative rarity. These were *Pohlia wahlenbergii* var. *calcareo* and *Weissia longifolia* var. *longifolia*; both new to the group.

Following these discoveries, we decided to call it a day as the weather looked like becoming unpleasant again. We returned to the house where we were once again royally entertained by the owners who also presented us with some excellent carrier bags of cooking apples. And it was in the orchard that we had a final shot at recording with *Calliergonella cuspidata*, and *Rhytidiadelphus squarrosus* being added to the list.

Our many thanks go to the two estate owners who made our weekends bryologising such an enjoyable experience; they could not have been more helpful.

Pendeen Watch (SW33), Porthmeor Cove (SW43), St Bellarmins Tor (SX17), Cabilla Tor (SX1469) - 10th & 11th March 2007

The weekend was organised in sites that were new to the group, and especially in those that had the possibility of producing unusual species. As it turned out, both these aims were realised.

Saturday

We met at the car park at Pendeen Watch (SW3735), and from there made our way down to Portheras Cove (SW3835), recording as we went. We soon came upon familiar plants such as *Dicranella heteromalla*, *Dicranum scoparium*, *Kindbergia praelonga*, and *Hypnum resupinatum* among others, but upon reaching the last bit of the path that led to the beach, more interesting things began to appear. *Platyhypnidium riparioides* was spotted in the stream there, and a little further on a patch of *Hygroamblystegium tenax* was spied just over the edge of the stream's bank which caused some joy being new to the group. Arriving on the beach, we began to explore the bottom of the cliff which we thought had distinct possibilities as fresh water was running down its face at various points thus providing suitable habitats for further finds. We particularly wanted to locate the rare *Philonotis rigida* reputed to be here, but although we did not succeed in this endeavour, we did find some new plants to us such as *Bryum gemmiferum*. Also there was *Bryum alpinum*, *Didymodon tophaceus*, and a number of liverworts such as *Saccogyna viticulosa*, *Cephalozia bicuspidata* and the common *Diplophyllum albicans*.

Following lunch, we moved further along the coast to Porthmeor Cove (SW4237) with the hope of finding *Philonotis rigida*. The precipitous walk down to the cove taxed the more elderly of the group, but all this turned to joy when the pale green patches of the moss began to appear on those parts of the cliff where the water was seeping down. *P. fontana* was also seen earlier on by the stream, and it was here that another pleasant surprise awaited us in the form of the liverwort *Jubula hutchinsiae* which was growing on the rock face above the stream. This made a perfect end to the day in which we had recorded over 70 plants.

Sunday

On the Sunday, we travelled eastwards to look again at St Bellarmins Tor (SX1370) in the morning, and Cabilla Tor in the afternoon. We had of course already been to the first Tor during the previous year, but such was its richness that we felt that we had not done it full justice then, and that a second visit would be profitable. As it turned out, we were unable to add much to the original list due to the top of the Tor being in use by the military for firing practice. A few new things were however found the most interesting of which was the liverwort *Ptilidium ciliare* which was found by Ken Preston-Mafham.

After lunch therefore, following Ken's advice, we moved off to Cabilla Tor (SX1469) which was not too far away, and entered the wood at its base. This turned out to have much interest, and we were soon recording plants near the path into it such as *Atrichum undulatum*, *Funaria hygrometrica*, and *Rhytidiadelphus squarrosus*. As we entered the wood things became even more interesting with the appearance of *Hygrohypnum ochraceum*, *Isothecium holtii*, and epiphytes such as *Ulota bruchii* and *U. phyllantha*. Crevices on the face of a small cliff also produced *Schistostega pennata*, whilst on some rotten wood we were pleased to see the bright red coloured liverwort *Nowellia curvifolia*. Other species of liverwort were also very common here and included *Bazzania trilobata*, and *Plagiochila porelloides*.

Moving through the wood, we came to a stream with a plank of wood over it. As the water was in full flood beneath the plank, and it was getting late, we decided not to cross it but to return at a later date when the stream was less daunting. However, we were able to see the uncommon *Platyhypnidium alopecuroides* growing in the water at the edge of the stream which rounded off the day nicely.

Carn Galver (SW43), Point House and Trelissick Woods (SW83) - 20th & 21st October 2007

Saturday

We met on the Saturday at the old mine below Carn Galver (SW4236), which is known for its rich bryological flora. As it turned out however, the terrain proved to be very difficult to negotiate, and so we were able to only scratch the surface of its possibilities. We began recording at the bottom of the hill on to path leading to the summit where we soon found common species such as *Campylopus introflexus*, *Dicranum scoparium*, *Hypnum cupressiforme*, *Isoetecium myosuroides* and *Mnium hornum* among others.

As we started to ascend the hill, the recording rate began to decline dramatically. One thing we did notice however, was the relative abundance of liverworts compared to the mosses, and we were able to record such things as *Lophozia ventricosa*, *Diplophyllum albicans*, *Plagiochila punctata* and *Scapania gracilis*.

As we approached the summit of Carn Galver, Mark Pool made the best liverwort find of the day by locating *Tritomaria exsectiformis* near some rather dangerous looking rocks that formed a hole into the ground. This was given special photographic attention by some of the group, including Ian Atherton.

Arriving at the top of the hill, we decided to eat our lunch in the sunshine, and to await the arrival of a new member of the group. Whilst there, Ian Bennallick directed our attention to a site for Wilson's Filmy-fern (*Hymenophyllum wilsonii*) which, he told us, grew on the north side of the hill lower down. He had to leave at this point, but said that he would leave a marker for us. As usual, his directions were impeccable, but the older members of our group found the descent to the site extremely precipitous, and it took us some time to get there. But it was worth it!

Following this excitement, we continued to bryologise, and recorded among other things, *Sphagnum palustre*, and *S. subnitens*, which seemed to be new records for the site as was the liverwort *Microlejeunea ulicina*, seen earlier.

Our last interesting plant of the day was the moss *Campylopus atrovirens*, which displayed itself as a totally black mass on the ground, and which was fascinating to look at. So ended a happy day, but not one with a great list of plants; the total being less than fifty. The Sunday was however, to prove much more profitable.

Sunday

Our Sunday meeting was to Trelissick Woods (SW8339) near Truro, and was picked as the result of a last minute change of plans due to problems arising from our forecast location, Cabilla Tor.

Whilst awaiting the arrival of other members of the group, Roy Jefferies and Mark Pool set about recording the bryophytes in my garden at Point House (SW8138). The list produced by them both, increased the previous total by some twenty plants to 47 of which two were new to a national survey of gardens list being carried out by a prominent member of the BBS. These were the mosses *Cirriphyllum piliferum* and *Gyroweisia tenuis*, but others were of great interest too.

Following this exciting diversion, we now proceeded to Trelissick Woods where the bryophytes began to appear thick and fast. *Brachythecium rutabulum* was the first plant to be seen at the entrance to the wood and it was there in some abundance. As we walked a short way down to the stream other plants such as *Kindbergia praelonga*, *Eurhynchium striatum* and *Dicranum scoparium* were noted. The small bridge at the stream gave up *Fissidens taxifolius*, whilst nearby, Roy found *Rhytidiadelphus loreus* which was unexpected, but very welcome.

But Roy was not finished yet! Moving down through the wood, he soon found a large tree trunk across the stream covered with the liverwort *Nowellia curvifolia* which is not a common plant. It was in its green state, and will make a wonderful show when it turns shades of red early next year. Other plants seen on our walk down included *Isothecium myosuroides* in abundance on the trunks of trees and sharing its space with *Neckera complanata* and *N. pumila*. *Hookeria lucens* was also common here, growing out of the bank at the side of the path.

We now stopped here for lunch when Ian Atherton and Alex Till had to leave us to drive back to Hampshire. He had hoped to find *Dicranum majus* before he left, and it was bad luck that we found the plant some ten minutes after he had gone, and so had to make do with a small piece we sent to him later.

Arriving at the old Quay at the end of the wood, further interesting plants began to appear. *Pohlia annotina* showed itself, as did the uncommon liverwort *Fossombronia incurva*. Further along the quay on a cliff face we found the moss *Trichostomum brachydontium*, which is not uncommon around our coast.

We now turned for home recording as we went. We were well satisfied with the days work having recorded over 100 plants; more than twice the amount found yesterday.

Bryophyte identification course, Cornwall Wildlife Trust HQ, Allet - 24th November 2007

This day was intended to introduce those interested in bryology to the techniques needed to identify mosses and liverworts using a microscope. David Holyoak, our county recorder was there to lead us, and following a very interesting introduction by him, we soon got down to work.

Seven people attended the meeting, and happily there were enough microscopes to go around; and they were soon in action. Confidence grew as the day wore on, and it was not too long before we were able to prepare and mount slides and to start beginning to key out species thoughtfully supplied by David. A great satisfaction was soon felt when we began to arrive at the right plant name on our own, with the aid of the key.

Much more practice is of course needed to make progress here, but thanks to David we were at least able to make a sure start, and we were all very grateful to him for giving up his precious time to be with us.

Centaurium scilloides, *Juncus subnodulosus* and *Phegopteris connectilis* rediscovered in Cornwall after many years

Ian Bennallick

Reading Peter Garner's note about the rediscovery of the Ghost Orchid *Epipogium aphyllum* after an absence of 23 years (Garner 2010) has prompted me to write this note. Searching for and finding the 'Holy Grail' of a national rarity is very satisfying, but on a vice-county level we can still have our triumphs which spur us on to seek out new sites and search old, known sites of local rarities (or those species presumed extinct) and serendipity often plays a part. In Cornwall three species, only recently presumed extinct in Cornwall (Murphy & Bennallick 2005) have been rediscovered after many years, one a national rarity (*Centaurium scilloides*), and two which are widespread in the British Isles but have always been very rare in Cornwall (*Juncus subnodulosus* and *Phegopteris connectilis*).

On 17 June 2010 local naturalists Laurie and Helen Oakes (see photo 2) saw and photographed a distinctive pink flower at Gwennap Head, West Cornwall (v.c. 1) which they knew wasn't the Common Centaury *Centaurium erythraea* but wondered if it was Perennial Centaury *Centaurium scilloides*. They emailed photos of the plant to me and I knew immediately that it was the much sought after *C. scilloides* (see photo 1). This was last seen at this site in 1962 by R Henning, though may have been seen here as late as 1967 (Wigginton 1999), with a herbarium specimen in the Royal Cornwall Museum collected by S Bannister in 1957 from Porthgwarra. It has been presumed extinct in Cornwall since 1962. Not only did Laurie and Helen find one population but also another separate population just to the north-west. Since the 1960s local botanists have searched these cliffs many times for this species without success, so with this major discovery I arranged to visit Porthgwarra the same day.

Two main populations of *C. scilloides* were found in 2010: one at Gwennap Head (SW36782156) with one plant on an adjacent slope just west of Hella Point (SW36882155); and another at Roskestal West Cliff, north-western part (SW36542201) (see photo 3). Both populations had many clumps scattered over an area of several square metres at the junction of maritime heath (*Calluna vulgaris*/*Erica cinerea*/*Scilla verna*) and coastal grassland (*Festuca rubra*/*Plantago lanceolata*/*P. maritima*). It was difficult to count actual numbers of plants as shoots were growing amongst the vegetation, but the population is estimated at between 50 to 100 separate plants at each site, with hundreds of individual flowers, with some still flowering in August 2010 (pers. comm. L Oakes). At SW36542201 there were a few outlying individual single-flowered plants growing through the *Erica* plants.

Both populations were on south-south-eastern facing slopes at about 30 to 40m above sea level and appear to be in vegetation that is not blasted by the south-westerly gales. On the south or south-western facing slopes the vegetation and soil is subject to erosion from wind and sea with the underlying granite being exposed and open patches of granite derived soil are sparsely vegetated with species such as *Sedum anglicum*, *Plantago maritima* and *P. coronopus*, *Festuca ovina*, the dwarf form of *Jasione montana* (var. *nana*), *Trifolium occidentale*, *Aira caryophyllea*, *A. praecox* as well as *Anthyllis vulneraria*, *Spergularia rupicola* and *Cerastium diffusum*. This plant community is widespread along the cliffs we explored but we found **NO** *C. scilloides* in this vegetation. However this was the type of vegetation where we saw masses of *Centaurium erythraea* var. *capitatum*, a plant that others had mistakenly took to be *C. scilloides* in the past. Likewise we didn't see any *C. scilloides* in the very turfey *Festuca rubra*/*Holcus lanatus*/*Plantago lanceolata* type vegetation which occurs further up the cliff slopes in places.

The long absence between sightings does raise some questions - do plants go through periods of few or no flowers? Perhaps the flowering period is so short that it has not been noticed by

passing botanists when flowers are in bud or gone over? Have new plants arisen from long-buried seed? Whatever the reason for its recent flowering, the plants can be mistaken for other species. The leaves of *Centaureum scilloides* are very small compared to the large pink flower heads, and the habit and growth of the leafy shoots look variously like *Stellaria graminea*, *Polygala* spp. or *Veronica serpyllifolia*, all not unlikely to be seen in coastal places, and *Lythrum portula*, though this usually grows in wetter places. If the *C. scilloides* plants were growing in these well-botanised slopes in previous years but haven't flowered it is probable that plants may have been overlooked. Now we know exactly where the plants are growing it will be interesting if they flower again next year and we should never 'lose' the site again.

Whilst surveying a field in a County Wildlife Site for the Cornwall Wildlife Trust in September 2009, experienced field botanist Sue Hocking found an extensive patch of a large rush that appeared not to be the expected *Juncus acutiflorus* or *J. articulatus* (by far the commonest jointed rushes in Cornwall) in very wet open fen vegetation, south of Tussler's Bridge (south of Erisey Barton) on the Lizard Peninsula (v.c.1) at SW710173 and SW710174. (see photo 6). Sue tentatively identified it as Blunt-flowered Rush *Juncus subnodulosus* (the longitudinal and cross-partitions in the leaf were evident - see photo 8) and was rightly cautious in naming it as it had not been seen in Cornwall since before 1909. Material was checked by D A Pearman and fellow botanists who named it as *Juncus subnodulosus*, and it was confirmed as this species by Dr T. Cope. This is the first confirmed record for Cornwall, as there are no herbarium specimens from earlier records. The site was visited by I J Bennallick, C N French and D A Pearman on 22 October 2009, and extent of population recorded, which covered many square metres. This population has some large upright plants to about 1 metre, distinctive robust dark green leaves, growing singly amongst the fen vegetation, and large diffuse 'cat's-cradle' fruiting heads with inflorescences with blunt tepals and rounded fruits (see photo 7). Many of the plants were lying flat along the ground where winds had pushed the leaves down. *Phragmites australis* is invading part of the fen but the *J. subnodulosus* appears to be dominant in an open area, with only *J. articulatus*, *J. inflexus* frequent and *J. effusus* occasional, and we couldn't see any convincing *J. acutiflorus*. All the other plant associates appear to put it close to M22 *Juncus subnodulosus*-*Cirsium palustre* fen-meadow mire community in the National Vegetation Classification (Rodwell 1991) but the vegetation with further sampling could be unique to this site.

Juncus subnodulosus was first recorded for Cornwall by Watson in 1852 (Davey 1909) and Davey in Davey (1909) also listed records for Padstow (SW87 or SW97) from Tellam, 'about' Falmouth (SW73 or SW83) from Bastian, and at Maenporth (SW72 or SW73) and Budock Bottoms (SW73) from Cocks, all before 1909, and all from v.c.1. However there were no records since then and L. J. Margetts and R. W. David in Margetts & David (1981) considered that "in the absence of specimens, we can only cast doubt on these records". No records were recorded in the supplement (Margetts & Spurgin 1991) and in French, Murphy & Atkinson (1999) it was thought that "the records for this species remain unconfirmed and it should probably be rejected as a member of the Cornish Flora". Though there are no specimens from the earlier records, it is feasible that the species was present in Cornwall before 1909 and those records are good. Changes in habitat may have been the reason why this species had not been recorded between 1909 and 1980, though it is intriguing to think where it is likely to occur in any of those earlier localities. Further searches are planned in those localities, as well as in similar habitats on the Lizard. Considering that the flora and plant communities of the Lizard Peninsula were recorded in detail for the University of Bristol Lizard Project (UBLP) from the 1950s to the early 1980s, and subsequent intensive recording to the present, it is quite amazing how this species has eluded detection. Many inland parts of the Lizard Peninsula have not had as much recording attention as the coastal areas, due to lack of access and fewer of the well-known rare species for the keen botanist to search for. It is pleasing that Sue Hocking, a fledgling field botanist in the early 1980s actively recording on the Lizard for the UBLP, is the person to find this new addition to the Lizard flora in 2009.

J. subnodulosus is similarly rare in South Devon. Roger Smith (BSBI recorder for South Devon, v.c.3) remarks that "I only know *Juncus subnodulosus* from east Devon where it is one of the dominants in a calcareous cliff-edge flush. *Epipactis palustris* is notable with it. The only recent record I have from West Devon is of a 'small patch on disused railway line by (abandoned) Lydford Station', N.F. Stewart, 1995. There are older records, but only one localised - at Venton Moor, High Hampton, SS503036, 1952, O. Greig".

On 15 August 2010 the Botanical Cornwall Group arranged a field meeting to search for another 'Holy Grail' species for Cornwall - Beech Fern *Phegopteris connectilis* - on Brown Willy (SX17 in v.c. 2), Cornwall's highest hill. The last sighting of *P. connectilis* in Cornwall was about 1930 by Major E W M Magor who found it on Brown Willy (though first seen here by Cornish Moneywort Club before 1909, Davey 1909) and Rough Tor (SX18 in v.c. 2). In about 1930 he also recorded Oak Fern *Gymnocarpium dryopteris* on Brown Willy. Brown Willy is a long ridge of granite in the northern part of Bodmin Moor, with several exposed weathered granite rock outcrops (known as tors) and loose granite boulders (known as clitter). Rising to 420 m (1,378 ft) it is not a place to visit in rain or mists, as was experienced by the group on at least two other earlier searches, but a small group of seven who met up on 15 August enjoyed sunshine and warm breezes. Thinking that the fern would most likely be in a damp crevice on the northern side of the hill, the upper north-western side was searched first, with the tors and clitter checked methodically. No *P. connectilis* plants were found but the habitat looked suitable. On a visit to Brown Willy in 2006 by I J Bennallick, the hill was grazed rather heavily by sheep and cattle with much of the grassy parts in between the rocky areas short-grazed. It was thought at the time that the intensity of grazing may have been detrimental to any chance that the *P. connectilis* could exist, as sheep had been observed to have pulled out plants of Fir Clubmoss *Huperzia selago* (another rare Cornish plant) from between clitter on the neighbouring hill Rough Tor, so with nibbling sheep present it had not looked good for *P. connectilis*. In 2010 the grazing appeared to have been relaxed somewhat: Heather *Calluna vulgaris* was flowering well in places and rather than being over-grazed it was almost at a stage which could be described as under-grazed. It looked much more promising that if any *P. connectilis* was present that it could possibly be found, though we had all resigned ourselves to this being extremely unlikely!

With no *P. connectilis* found in the morning we took lunch near the top of the hill enjoying the views and resigned ourselves to a 'nice' but ultimately unsuccessful day. However David Pearman had reported that, only days before, Andy Byfield had found and refound four colonies of *P. connectilis* on Dartmoor, in Devon, the next largest granite moorland to the east of Bodmin Moor. He had found it in two different types of habitat - in granite crevices on south-east facing tors, and in shaded wet hollows in valleys. With this in our minds we started exploring the tors on the upper part of the hill on the eastern side. Not far from the top David Pearman reported seeing Maidenhair Spleenwort *Asplenium trichomanes* ssp. *quadrivalens* in a horizontal crevice. In Cornwall *A. trichomanes* ssp. *quadrivalens* is a fern not normally growing in such an acid situation, at least in a crevice of a granite tor, so the occurrence of it here was worthy of a second look. It was only as we checked the other plants and small ferns in the crevice that the *P. connectilis* was discovered, at SX15907994 (see photo 5). This was completely unexpected as we had not been prepared to find fronds so small, and it is probably this reason that the fern had eluded detection since 1930. The small colony had ten small green fronds (see photo 4) with three or four dead brown crisped fronds on about 6 small plants - or perhaps one large plant which is spread along the crevice - growing with small *Athyrium filix-femina* and *Dryopteris dilatata* along a horizontal crevice of a vertical southeast facing rock outcrop at about 412 metres, just below and southeast of the highest point of Brown Willy. The substrate in the crevice was wet to the touch. Page in Page (1997) remarks that "[*P. connectilis*] also spreads, **in more stunted form**, to moist patches on damp rocky slopes and cliff ledges in mountains to about 610m (2000ft)". This fits the habitat where it is found on Brown Willy perfectly (see photo 5).

A. trichomanes ssp. *quadrivalens* had been recorded for Brown Willy in 1969 by J. W. Dyce and also in 1997 by Mary Atkinson, and it has also been recorded (including by the author) for Rough Tor (SX145808) since 1992, but no *P. connectilis* was reported for those dates. If *A. trichomanes* ssp. *quadrivalens* and *P. connectilis* grow almost together on Brown Willy then it is well worth checking other places on granite tors, including Rough Tor, where *Asplenium trichomanes* ssp. *quadrivalens* grows to see if *P. connectilis* is also present. Though the *P. connectilis* plants on Brown Willy are very small it appears to be holding on in its south-westernmost British locality. However historically there is a more south-westerly record for *P. connectilis* in Cornwall. Ralfs found it “at the base of Carn Galva” (Carn Galver) in West Penwith (SW43) in v.c. 1, before 1909. Carn Galver is a granite hill ridge very similar to Brown Willy, with granite tors and clitter, and like Brown Willy has both *Hymenophyllum tunbrigense* and *H. wilsonii*. Ralfs found both of these species on Carn Galver, and those who have looked for and found the *Hymenophyllum* spp. on Carn Galver in the past will know that Ralfs must have been searching rather thoroughly through the ankle-breaking clitter. On seeing the situation where the *P. connectilis* grows on Brown Willy, Ralfs’s record for Carn Galver appears correct, despite earlier doubts by local botanists. Carn Galver also has similar creviced granite tors as Brown Willy, and there are also recent records for *A. trichomanes* ssp. *quadrivalens* there. Perhaps Carn Galver may add another location for a ‘Holy Grail’ Cornish species?

There are other species which remain ‘Holy Grail’ plants for Cornwall including national rarities such as *Euphorbia peplis* (last seen in 1949), *Otanthus maritimus* (last seen in 1933), *Corrigola littoralis* (last seen in 1915) and those that are widespread elsewhere in the British Isles such as *Drosera anglica* (last seen in 1975), *Sium latifolium* (last seen in 1920) and *Limosella aquatica* (last seen in 1921). There is no guarantee that we will rediscover these species but we will have fun trying!

Acknowledgments

Thanks go to Laurie and Helen Oakes and those members of the Botanical Cornwall Group for diligent searching in the field, and David Pearman, Colin French, Sue Hocking, David Fenwick, Sara Chambers, Roger Smith, Bob Hodgson, Andy Byfield and John Hopkins for invaluable information for the species and locations above.

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Photo 1 - *Centaurium scilloides*, Gwennap Head (v.c.1). Photo I.J. Bennallick © 2010 (see p. 36)



Photo 2 - Laurie and Helen Oakes with *Centaurium scilloides*, Gwennap Head (v.c.1). Photo I.J. Bennallick © 2010 (see p. 36)



Photo 3 - *Centaurium scilloides* in maritime heath, Roskestal West Cliff, (v.c.1). Photo I.J. Bennallick © 2010 (see p. 36)



Photo 4 - The stunted fronds of *Phegopteris connectilis*, Brown Willy (v.c 2). Photo D. Fenwick © 2010 (see p. 38)



Photo 5 - Members of the Botanical Cornwall Group in front of the lower horizontal crevice with *Phegopteris connectilis*, Brown Willy (v.c 2). Photo D. Fenwick © 2010 (see p. 38)
Left to right – Ian Bennallick, Margaret Gardener, Anita Pearman, Doreen Wilson and David Pearman.



Photo 6 – The site of *Juncus subnodulosus* south of Tussler’s Bridge (v.c 1). Photo S.M. Hocking © 2010 (see p. 37)



Photo 7 - *Juncus subnodulosus* south of Tussler’s Bridge (v.c 1). Photo S.M. Hocking © 2010 (see p. 37)



Photo 8 – Cross-partitions in the leaf of *Juncus subnodulosus*, found south of Tussler’s Bridge (v.c 1). Photo S.M. Hocking © 2010 (see p. 37)

Plant records

Compiled by Ian Bennallick

The majority of records below are from the period since the last Botanical Cornwall was published (2005) to December 2009, but some have been included from earlier years where the record is significant. Records have been included where species are - new to Cornwall; new to v.c.1 or v.c.2 (or the v.c.4 part of Cornwall); new to a hectad (10km x 10km square) or the Cornish part of a hectad where the hectad is also in Devon (v.c.3 or v.c.4); an update to a vice-county or a hectad since the 1987; and other interesting finds. Records for the Isles of Scilly are included in the update from Rosemary Parslow on page 93.

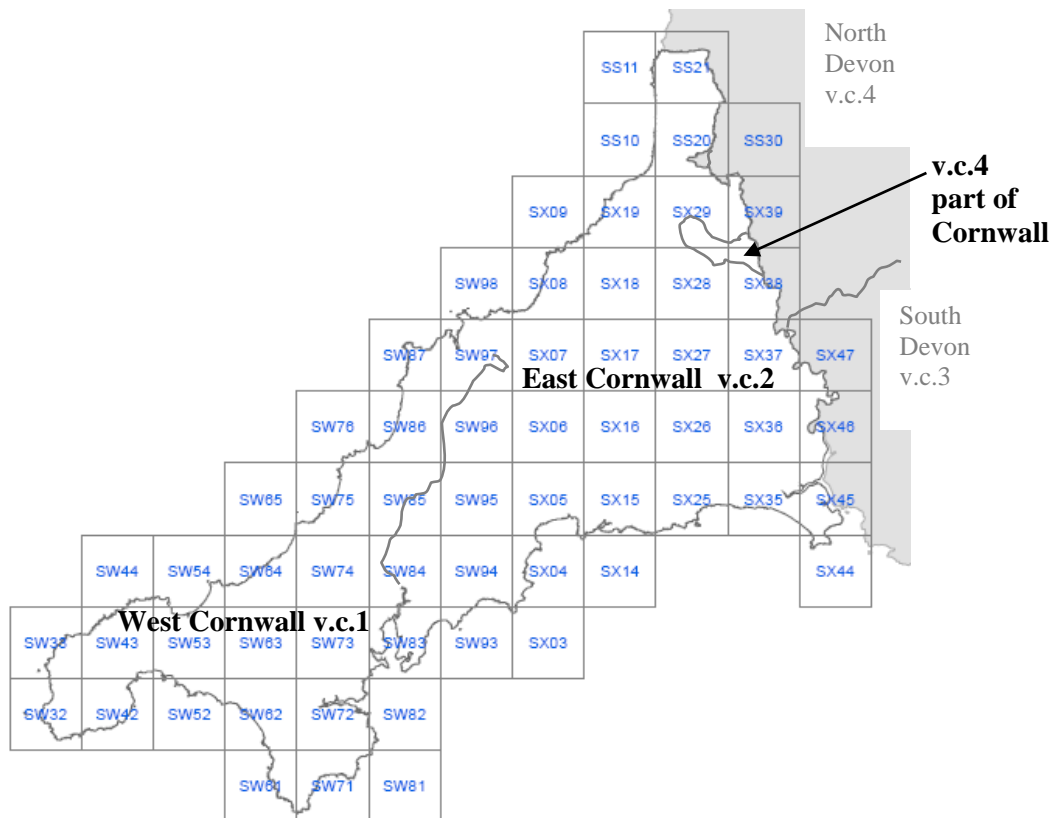
Records of non-native species to Cornwall follow BSBI guidelines and include

- (NEO) (Neophyte - alien species that first appeared in the wild in Britain after AD1500)
- (ARC) (Archaeophyte - alien species, maintaining itself from year to year by selfseeding or by vegetative spread, present in the wild in Britain before AD 1500)
- (INT) (Introduced - species native in other parts of the British Isles that are not regarded as native to Cornwall (also includes species that may be native to a very localised area of Cornwall but considered introductions elsewhere)
- (ALIEN)(alien species not assigned neophyte or archaeophyte status)
- (ALIEN CASUAL) (alien species that occur but don't persist)

Any records not included below may well appear in Botanical Cornwall 15 (2011) as and there is a – however to ensure that any new records have not been overlooked please send them to Ian Bennallick, co-ordinator of the Botanical Cornwall Group at Lower Polmorla, St Wenn, Bodmin, Cornwall, PL30 5PE or email ianbennallick@btinternet.com.

Recorders

AA	A. Atkinson	DF	D. Fenwick	MD	M. Davies
AAB	A.A. Butcher	DT	D. Thomas	MG	M. Gardener
AB	A. Brown	DN	D. Nelson	MJS	M.J. Stribley
AECA	A.E.C. Aston	DTH	Dr. D. T. Holyoak	MU	Prof. M. Usher
AJB	A. J. Byfield	DW	D. Wilson	MW	M. Woods
AMcN	A. McNeill	EJ	E. Jackson	NFS	N.F. Stewart
AMcV	A. McVeigh	GB	G. Blow	PAG	Dr P.A. Gainey
AP-S	A. Phillips-Smith	GDK	G.D. Kitchener	PMG	P.M. Greenwood
AS	A. Stevenson	GH	Prof. G. Halliday	PC	Prof. P. Corbet
AVP	A.V. Pearman	HH	Dr H. Hipperson	PCa	P. Casselden
BB	B. Boothby	HMM	H. M. Meredith	PD	P. Davies
BCG	Botanical Cornwall Group	HO	H. Oakes	PH	P. Hunt
BH	Dr. B. Hodgson	HT	H. Tyler	PM	P. Madge
BJ	B. Jackson	IJB	I.J. Bennallick	PP	P. Pullen
BL	B. Laney	IMcC	I. McClenahan	PRG	P.R. Green
BRW	Dr. B.R. Wheeler	IPG	I.P. Green	RB	R. Buse
BSBI	Botanical Society of the British Isles	JH	J. Higginson	RJM	R.J. Murphy
CA	C. Arkley	KB	K. Blow	RL	R. Lane
CB	C. Bax	KJW	K.J. Walker	RWG	R. W. Gould
CDP	C.D. Preston	KLS	K.L. Spurgin	SC	Dr S. Corbet
CEW	C.E. Wild	KP-M	K. Preston-Mafham	SCM	S.C. Madge
CNF	Dr C. N. French	KT	K. Trewren	SP	S. Payne
CNP	Dr C.N. Page	LC	L. Cox	TCGR	T.C.G. Rich
CR	C. Roper	LO	L. Oakes	TJD	T. J. Dingle
CW	C. Wilkins	LP	L. Philpott	TP	T. Purches
DAP	D.A. Pearman	LR	L. Rennocks	WGL	W.G. Last
		MA	M. Atkinson		
		MB	M. Bryant		



Map showing vice-counties and 10km x 10km squares in Cornwall

Species names follow Stace (2010) where there have been numerous updates to species names – it is highly recommended that this is referred to. Any names in previous editions (1 and 2) of Stace (1991, 1997) are enclosed with square brackets after the current name, e.g. *Glebionis coronaria* [*Chrysanthemum coronarium*].

***Abies procera* (NEO)**

SX06. In Forestry Commission plantation, Bishop's Wood, SX006700. 25th November 2004. IJB. New to SX06.

***Acer platanoides* (NEO)**

SX46. Metherell, SX4069. 27th August 2008. CR. New to SX46.

Achillea ptarmica

SX36. In species rich grassland and fen vegetation, west of Swiftaford, SX39306294. 28th August 2006. IJB. First record for SX36 since 1955.

SX46. Road verge, Calstock, SX433687. 17th October 2008. IJB & CR. New to v.c. 2 part of SX46.

Aconitum napellus

SS21. Beside river in two places, Coombe Valley, SS215116 & SS21101166. 12th

June 2005. BCG. First record for SS21 since 1992.

The plants seen key out to the native subspecies *Aconitum napellus* ssp. *napellus*. Other plants from similar 'native' sites need to be checked to see if they too are the 'native' plants. However the native status of *Aconitum napellus* in Britain is currently under revision – it is on the 'Waiting List' in Cheffings & Farrell (2005) - and the assumed native subspecies may be proven to be a neophyte.

***Aconitum* × *stoerkianum* (*A. napellus* × *A. variegatum*) [*Aconitum* × *cammarum*] (NEO)**

SX05. Casual, by roadside stream, Charlestown, SX037517. 9th June 2003. PH. New to SX05.

Adiantum capillus-veneris

SW83. A few patches on damp cliff, Great Molunan, SW84683166 v.c. 2. 30th December 2009. BCG. New to SW83K in a natural habitat so probably the only native site in SW83.

SX08. On rock outcrop behind pub near coast path, Trebarwith, SX049863. 9th August 2007. BH. New site in SX08.

SX45. West face of Southdown Quarry, abundant along base, newly revealed with willow bushes cut back, SX43455285. 23rd July 2005. BCG. First record in natural site in SX45.

Aethusa cynapium

SW54. St Ives, SW5140. 3rd July 2004. BCG. Last recorded in SW54 in 1975

Agrimonia eupatoria

SW43. Chysauster, SW4734. 4th July 2007. IJB. New to SW43.

Agrimonia procera

SW84. woodland edges near Cowland's Creek, SW826408. 25th July 2005. KP-M. First record for SW84 since before 1989.

SX04. Beside cliff path at Pabyer Point, SX023427, and east of Carn Rocks, SX01824254. 6th September 2008. BCG. Determined by IJB. *Agrimonia eupatoria* has also been recorded near here in the last few years and *Agrimonia procera* may have been overlooked. Last recorded in SX04 before 1970.

Agrostis vinealis

SW64. In heath, Wheal Charlotte Moor, SW699489 and near Chapel Porth, SW6949. 9th August 2008. IJB. Last recorded in SW64 in 1976.

SW74. In heath, Wheal Charlotte Moor, SW7048. 9th August 2008. IJB. New to SW74.

SX26. In short heath south-east of Tokenbury Corner, SX2869. 23rd August 2007. AA, MA, IJB, CR. New to SX26.

***Alchemilla mollis* (NEO)**

SW85. Beside track East Wheal Rose, SW836551. 12th August 2007. IJB & CNF. New to SW85.

SX15. Road verge, near Trewether, SX11965851. 20th August 2007. IJB. New to SX15.

SS21. beside woodland path, Lee Wood, Coombe Valley, SS216116. 12th June 2005. BCG. New for SS21.

Alisma plantago-aquatica

SW71. Established or originally introduced (or possibly native) into old borrow pit, west of St Keverne Beacon, SW77171985. 6th July 2006. IJB. Last recorded in SW71 before 1983.

Allium ampeloprasum* var. *ampeloprasum

SS20. Bude, around 300 plants, with a few plants of *Allium ampeloprasum* var. *babingtonii*, SS205065. 29th August 2006. AS conf. P.R. Green. First record for var. *ampeloprasum* for SS20 since 1966.

***Allium ampeloprasum* var. *babingtonii* (ARC)**

SW96. on road verge northeast of Lantuel Farm, SW98006770. 24th May 2005. IJB. New for v.c. 2 part of SW96.

***Allium neapolitanum* (NEO)**

SX05. Naturalised on Gover Stream bank, SX005528. 8th June 2005. PH. New to SX05.

***Allium paradoxum* (NEO)**

SX04. Naturalised below car park, Ropehaven and Trenarren, SX033490. 21st July 2006. M. Downes, det. IJB. New to SX04.

***Allium roseum* (NEO)**

SX15. Naturalised on road verge, Fowey, SX120514. 2nd June 2003. PH. New to SX15.

***Allium sphaerocephalon* (INT)**

SX05. Three plants on fixed dunes, Par Sands, SX082533. 16th July 2007. PH det. P.R. Green. New to SX05, v.c. 2 and Cornwall. Presumably naturalised.

***Allium subhirsutum* (NEO)**

SX26. In lay-by, Lower Clicker, SX28316126. 13th May 2006. CNF. New to SX26 and last recorded in East Cornwall (v.c. 2) in 1978.

Allium triquetrum (NEO)

SS20. In St Michael's churchyard, Bude, SS20350612. 6th August 2005. PMG. New to SS20.

Allium vineale

SW87. Constantine Bay, SW8674. 20th July 2006. IJB & PD. New to SW87.

Alnus cordata (NEO)

SW94. Planted on roadside verges, east of Grampond, SWSW944484. 23rd May 2005. IJB. New for SW94.

SX19. Planted on roadside, Woodgate, SX13659563. 10th May 2006. BCG. New to SX19.

Alnus incana (NEO)

SW95. Planted beside track (and spreading), Little Drinnick Farm, east of, SW963557. 22nd August 2007. BCG. New to SW95.

SX07. Planted beside road near Bravery Cottages, SX06637455. 2nd May 2005. IJB. New to SX07.

Alopecurus bulbosus

SX46. Large patch in mown grassy area on edge of River Tamar tidal river, northwest of Bohetherick Wood, south of Cotehele Quay, south side of tidal inlet, below lime kiln, SX42306791. 29th May 2009. IJB & CR – bulbous bases distinctive. Last recorded here, the only Cornish site, in 1993.

Althaea officinalis (INT)

SW43. Small clump on north side of A30 by the Heliport, Penzance, SW487313. 2005. GH. LANC. New to SW43.

Amaryllis belladonna (NEO)

SW52. Naturalised, St Michael's Mount, SW515298. 16th October 2008. MU. New to SW52.

Amelanchier lamarckii (NEO)

SX37. Kit Hill, northern side, SX3771, several bushes appear to be well established. May 2009. RWG. location checked by CR and bushes seen at SX37787155, SX37817156, SX3767715, SX37647160, SX37687160. 28th May 2009. New to Cornwall.

Anacamptis pyramidalis

SW53. Three flowers on mine waste, north of Trevarthian Farm, SW539325. July 2004. CNF. Last seen in this inland area in 1965.

Anagallis arvensis* ssp. *arvensis* forma *carnea

SW75. North of Penhale Camp, in area cleared of scrub, SW76375876. 27th June 2006. IJB. The last time this flesh-coloured variety was seen in SW75 was 1916.

SW84. On disturbed ground of new roadworks, between Cathedral View and Bodmin Road, Truro, SW833463. 11th May 2004. KLS. First for SW84.

Anagallis arvensis* ssp. *arvensis* forma *azurea

SX05. On disturbed ground, Par, SX076538. 31st May 2006. PH. New to SX05.

SX35. In corner of arable field, Grove, SX38275730. 28th June 2005. IJB. New to SX35.

Anagallis tenella

SW83. On mown area in wet woodland, south of Philleigh (Philleigh Moor), SW870385. 7th October 2006. BCG. First record for SW83 since 1874

Anemanthele lessoniana (ALIEN)

SX45. On pavement St Stephens Hill, Saltash, SX415583. 11th October 2008. BCG det. E.J. McDonnell. New to SX45 and v.c. 2.

SX46. Spreading onto pavements from flower beds, Calstock, SX436685. 17th October 2008. IJB & CR. New to SX46.

Anisantha diandra (NEO)

SW76. Riverside Avenue, Pentire, SW79446131. 15th April 2006. HMM det. RJM. New to SW76.

SX05. Casual on roadside, PAR, SX081541. 10th June 2005. PH. First record for SX05 since before 1909.

Anthemis arvensis (ARC)

SX26. A few plants in weedy area near workshops (with *Misopates orontium*), south of Higher Woolston Farm, SX29466933. 23rd August 2007. AA, MA,

IJB, CR. Last recorded in SX26 before 1909.

SX35. Several plants with Poppies (*Papaver rhoeas*) on sandy waste patch, on top road, Dowlerry, SX315541. July 2005. SCM & PM. Last recorded in SX35 in 1880.

SX38. One plant on roadside, north of TreCrogo Lane End, SX30358138. 2nd October 2005. IJB. First for SX38 since before 1909.

Anthemis cotula (ARC)

SX06. A few plants in reseeded rye-grass ley, just off Copshorn Road, north of Bodmin, SX06426830, (with *Centaurea cyanus* and *Papaver rhoeas*). 2nd June 2007. IJB. Probably a seed contaminant. New to SX06.

Anthemis punctata* ssp. *cupaniana (NEO)

SX15. Naturalised on wall and road verge, Fowey, SX118512. 31st July 2009. PH. New to SX15.

SX35. Naturalised, Dowlerry, SX3153. 25th September 2008. IJB. New to SX35.

Anthyllis vulneraria* ssp. *carpatica* var. *pseudovulneraria (ALIEN)

SX05. Cliff-face, Charlestown Harbour, SX039516. 9th June 2003. PH. Last recorded in SX05 in 1972.

Antirrhinum majus (NEO)

SX15. Casual, roadside, Fowey, SX126518. 4th August 2003. PH. Last recorded in SX15 before 1909

SX27. On track, Knighton, SX25087963. 5th August 2007. BCG. Last seen in SX27 in 1902.

Aphanes arvensis

SW76. In arable field, West Pentire, SW7760. 26th June 2006. IJB. New to SW76.

SX04. In arable field, Bodrugan, SX017433. 6th September 2008. BCG. New to SX04.

SX29. North Petherwin to Godcott, SX29V. 8th May 2005. MA. First record for SX29.

Aphanes australis

SW42. In gravel drive of Laregan House, Newlyn, SW46352971. 31st July 2007. GH. New to SW42.

Aponogeton distachyos (NEO)

SW64. In newly dug pond, Roscroghan, SW649419. 17th November 2009. AB and LR. New to SW64.

SW74. In quarry pool, Carn Marth, SW71604083. 6th June 2009. IJB. New to SW74.

SW96. In pond, Goss Moor, SW94716011. 2003. AB. New to SW96.

Aquilegia vulgaris (INT)

SX04. Established, on roadside, Portmellon, SX0143. 6th September 2008. BCG. Last recorded in SX04 in 1960.

Arabidopsis thaliana

SW76. Path verge, East Pentire, Newquay, SW7961. 15th April 2006. HMM. New to SW76.

Arctium lappa (ARC)

SX15. On path through woodland, Station Wood, Fowey, SX12235234. 27th May 2009. IJB & MG. Last recorded in SX15 (in Fowey) in 1894.

SX19. Crackington Haven, beside stream, SX14299671. 25th July 2007. BCG. New to SX19.

Arenaria leptoclados [*Arenaria serpyllifolia* ssp. *leptoclados*]

SX35. in waste area, Seaton, SX302544. 24th September 2005. BCG. First record for SX35.

Arenaria serpyllifolia* ssp. *serpyllifolia

SS21. in open areas of rabbit grazed turf, Sandymouth, SS2010. 2nd July 2005. IJB. New for SS21.

Arum italicum* ssp. *neglectum

SW32. In woodland edge, Penberth valley, SW393234. 2003. GH. First record for SW32.

SW94. In old quarry, southeast of Nantellan, SW94464943. 23rd May 2005. IJB. New for SW94.

SX25. Two clumps of leaves on roadside about 100 yards south of lime kiln, Sowden's Bridge, SX233549. 25th

November 2006. PM & SCM. Last recorded in SX25 in 1978.

SX26. Several clumps in field gateway just above an isolated house 'Venslooe' short distance east of Old Park, SX244653. 3rd January 2006. PM & SCM. New to SX26.

Asplenium marinum

SS20. Growing in shade of fallen rocks, cliffs below Maer Down, south of Bude, SS201079. 30th August 2006. PMG. New to SS20.

Asplenium obovatum* ssp. *lanceolatum

SW83. One plant with large fronds shaded by *Hedera hibernica* [*Hedera helix* ssp. *hibernica*] under rock outcrop beside coastal path, southeast of Carricknath Point. 30th December 2009. BCG. New to SW83K, and v.c.2 part of SW83.

***Asplenium* × *jacksonii* (*A. adiantum-nigrum* × *A. scolopendrium*)**

[×*Asplenophyllitis jacksonii*]

SW74. On edge of farm building at edge of farmyard near Gwennap, SW7340. First discovered by C.N. Page in 2002 (see Page in Botanical Cornwall 12, 2003), and subsequently monitored, but entire wall pulled down in redevelopment of farmyard in July 2005 and plant lost with it. First record for Cornwall.

Note. *Asplenium* × *jacksonii* was recorded for Cornwall c. 1860 (Jermy *et al.* 1978) but according to Fred Rumsey of the British Museum, the original specimen is *Asplenium* × *microdon* [×*Asplenophyllitis microdon*] (*A. obovatum* × *A. scolopendrium* [*Phyllitis scolopendrium*]) – (see Page 2005).

***Aster lanceolatus* (NEO)**

SW42. On wall on north side of promenade road opposite children's playground, Wherrytown. 1st October 2007. GH. New to SW42.

SX35. Large patch by forestry lay-by on east side of road, about 1km south of Hessenford, SX312564. 4th November 2007. SCM. New to SX35.

SX46. Top of bank of hedgerow, Millennium Park, Saltmill, Saltash,

SX428596. 4th September 2006. DF. New to Cornwall part of SX46.

***Aster* × *versicolor* (*A. laevis* × *A. novi-belgii*) (NEO)**

SX35. Naturalised, Downderry, SX3153. 25th September 2008. IJB. New to SX35.

Atriplex glabriuscula

SW93. Near Caragloose Point, SW9439. 21st October 2007. IJB. Last recorded in SW93 in 1967.

Atriplex littoralis

SX05. Growing in sand in old tractor tyre on beach on west side of Par Docks, SX0763752672. 17th July 2009. DF. Last recorded very near this site in 1984. The only recent site for Cornwall.

Atriplex longipes

SW84. Beside tidal river, Bar Creek, SW847431. 4th September 2005. PRG & MJS, conf. J. Akeroyd, specimen in Reading (RNG). New to SW84.

SX15. Two plants growing on landward side of patch of *Bolboschoenus maritimus*, on south side of Penpoll Creek, SX146543. 17th October 2004. AS. Last recorded here at its only site in Cornwall on 11th September 1991 by MA & RJM.

Atriplex portulacoides

SX04. About 30 ft above MHW on cliff pinnacle dividing two beaches, Little Polstreath, SX01714524. 3rd June 2007. BCG. New to SX04.

Atriplex prostrata

SX17. On disturbed earth of target of rifle range, Cardinham Moor, SX13427050. 25th July 2008. IJB & HMM. New to SX17.

***Aubrieta deltoidea* (NEO)**

SX15. Naturalised in high wall, Fowey, SX124518. 20th March 2003. PH. New to SX15.

SX26. On hedge north of Treview, SX27896291. 14th August 2005. IJB. First record for SX26.

***Avena fatua* (ARC)**

SX17. Waste area, lane to Priddacombe Downs, SX1677. 12th July 2006. IJB. New to SX17.

Avena sativa (ALIEN CASUAL)

SX16. On waste ground, north west of Bodmin Lodge, SX12256161. 30th May 2006. IJB. New to SX16.

SX26. On edge of roadside, Cartuther Mill, SX2763. 14th August 2005. IJB. First record for SX26.

Azolla filiculoides (NEO)

SW73. Penmere Crescent, Falmouth, SW798324. 15th July 2004. Derek Toyne. Bellair Farm pond, Mylor, SW79843662. 2004. Jennifer Cooke. Both New for SW73.

SX15. Lerryn, SX140569. 27th May 2004. R. Saunders-Davies (first seen in 1999). New to SX15.

SX17. Waterloo, Blisland, SX108729. 26th October 2003. J.P. Arlington. New to SX17.

SX27. Potok, North Hill, SX2776. 11th September 2004. C.A.Butter. New for SX27.

SX28. In ditch pond northwest of Truscott, SX29968590. 26th September 2008. IJB. New to SX28. The pond also has *Myosotis scorpioides*, *Typha latifolia*, *Myriophyllum aquaticum*, *Nymphoides peltata* and *Pontederia cordata*, all introduced.

Barbarea verna (NEO)

SX04. Pentewan, SX0247. 2nd August 2009. BCG. New to SX04.

Berberis macrocarpa (NEO)

SX05. Bird-sown casual, mortared wall, Par, SX079538. 19th May 2005. PH. New to v.c. 2 and Cornwall.

***Berberis ×stenophylla* (*B. darwinii* × *B. empetrifolia*)** (NEO)

SX35. Several bushes on north side of A38, Penquite, SX32405930. 8th May 2009. IJB. New to Cornwall.

Bergenia crassifolia (NEO)

SW83. Naturalised on edge of field, south of Philleigh, SW869390. 7th October 2006. BCG. New to SW83.

SX35. Naturalised, Downderry, SX3153. 25th September 2008. IJB. New to SX35.

Berula erecta

SW53. Large patch in open ditch, Loggans Moor, SW57523896. 17th October 2009. IJB & CNF. last recorded for SW53 (at Loggans Moor) in 1879.

Betula pendula

SX07. Beside road, Loskeyle, SX0775. 2nd May 2005. IJB. 1st record for SX07 since 1980.

Betula pubescens ssp. pubescens

SW71. In scrub beside track, Cow-y-Jack Moors, SW7719. 30th July 2006. BCG. New to SW71.

Blackstonia perfoliata

SW85. Several plants on track through old mine workings, East Wheal Rose Farm, west of, SW83605510. 12th August 2007. IJB & CNF. New to SW85.

Blechnum cordatum (NEO)

SW85. In old railway cutting, near Shepherd's Farm, SW8153. 15th November 2005. CA, det. IJB. First for SW85 since 1965 (at the same site).

Bolboschoenus maritimus

SW43. Around inland fishing lakes, Beagletodn, Towednack, SW484378. 1st July 2005. DAP & AVP. First record for SW43. Probably introduced.

SW86. In four places on freshwater inland reservoir margin Porth Reservoir, SW87186206, SW87306215, 87426225 & SW86886199. 17th October 2004. BRW conf. IJB - not new to SW86 but unusual as it is around the freshwater reservoir and well away from existing coastal colonies.

Borago pygmaea (NEO)

SW53. On edge of golf course, Lelant, SW54253802. 12th June 2007. DF. New to SW53 (Last seen in v.c. 1 in 1991).

SX05. Established on waste ground, Polmear, Par, SX087536. 7th September 2007. PH det. RJM. New to SX05 and v.c. 2.

Brassica juncea (ALIEN CASUAL)

SW42. One plant just between the new and old bridges, Newlyn, SW463290. 2003. GH, conf. T.C.G. Rich, LANC. New to SW42.

Brassica nigra

SW73. On roadside, Halabezack Farm, SW7034. 23rd September 2005. IJB & PAG. First record for SW73.

SX18. Roadside, Tich Barrow, SW1488. 5th July 2009. BCG. New to SX18.

Brassica oleracea* var. *oleracea

SW83. One plant in grass by coast path, Zone Point, SW854314. 31st May 2006. TCGR. Last recorded in SW83 in 1986.

***Briza maxima* (NEO)**

SX04. London Apprentice, SX0049. May 2004. PH. Last recorded in SX04 in 1902.

SX19. Trevigue, SX1395. 10th May 2006. BCG. New to SX19.

***Briza minor* (ARC)**

SW43. In gateway, Trannack Farm, SW419307. September 2008. Robin Menner, conf. RJM. Last recorded in SW43 in 1976.

SW84. Set-aside near Cowlands, SW825407. 25th July 2005. KP-M.

SW97. On edge of arable field, west of Chapel Amble, SW992757. 26th June 2006. IJB. New to SW97.

***Bromopsis inermis* (NEO)**

SS20. Few plants on wall beside Methodist Chapel, Bude, SS20760633. 19th July 2008. TJD. Last recorded here in 1973.

Bromus commutatus

SW84. On bank along hedge between fields, Nankilly, SW862486. 25th June 2009. KLS conf. T. Cope. Last recorded for SW84 in 1758.

Bromus hordeaceus* ssp. *ferronii

SW97. Cliff, Pentire Point, SW93307978. 28th June 2009. BCG. Last recorded for SW97 before 1909.

SX03. Dodman Point, SX00443928. 19th June 2009. IJB & DAP. New to SX03.

***Bromus secalinus* (ARC)**

SW84. Casual in garden, Rosewin Row, Truro, SW828450. 25th June 2009. KLS conf. T. Cope. Last recorded for SW84 in 1922.

***Bromus pseudosecalinus* (NEO)**

SW74. a few plants in wet meadow, near Carrine Common, near Truro, SW7943. 2004. KLS. thousands of plants in same location. 12th June 2005. KLS. First found in 1982, a useful update of this species.

***Bromus* × *pseudothominei* (*B. hordeaceus* × *B. lepidus*) (NEO)**

SW84. One plant on disturbed ground of new roadworks, between Cathedral View and Bodmin Road, Truro, SW833463. 11th May 2004. KLS. First for SW84.

***Buddleja globosa* (NEO)**

SX15. Two bushes in roadside hedgebank, Fowey, SX125521. 2nd June 2003. PH. New to SX15.

***Buddleja* × *weyeriana* (*B. davidii* × *B. globosa*) (NEO)**

SX35. Naturalised, Downderry, SX3153. 25th September 2008. IJB. New to SX35. Last recorded in v.c. 2 before 1980.

***Bupleurum subovatum* (NEO)**

SX05. Casual on waste ground, Tywardreath, SX083544. 3rd August 2007. PH. Last recorded in SX05 in 1917.

***Calendula officinalis* (NEO)**

SX45. Kingsand/Cawsand, SX4350. 12th October 2006. CNF. New to SX45.

***Calla palustris* (NEO)**

SX04. Introduced but established in small pond, north of Polstreath, SX01724552 (with *Lagarosiphon major*, *Crassula helmsii*, *Lemna minuta*). 3rd June 2007. BCG. New to SX04, v.c. 2 and Cornwall.

Callitriche brutia

SW97. On marshy area, Amble Marshes, SW99537505. 16th May 2006. IJB. New to SW97.

SX16. On muddy forest tracks, west of Milltown, Cardinham, SX11206832. 22nd May 2007. IJB. New to SX16.

SX39. On edge of pond in floodplain of River Tamar, Tamerton Town Farm, North Tamerton, SX32039660. 1st July 2006. BCG. New to SX39.

Callitriche platycarpa

SX26. In small ditch in wood, Draynes Wood, SX226686. 23rd August 2008. BCG. Seeds checked by B. Hodgson. New to SX26.

Caltha palustris

SW32. Probably planted on edge of pond, east of Carn Trevean, SW36382286. 1st September 2007. IJB. New to SW32.

SX16. Beside Cardinham Water, west of Cardinham, SX1168. 22nd May 2007. IJB. First record for SX16 since before 1962

Calystegia pulchra (NEO)

SW97. On bank, Little Petherick, SW91857215. 21st June 2007. BCG. New to SW97.

SX06. Lowertown, SX05306123. 27th July 2008. IJB. Last recorded in SX06 in 1975.

Calystegia sepium ssp. roseata

SW71. Coverack, SW78271854. 6th July 2006. IJB. Last seen in SW71 in 1871.

SW87. Beside stream in scrub on sand dune, Constantine, SW860748. 20th July 2006. IJB & PD. New to SW87.

SS20. In marsh, Bude Marshes, SS209057. 10th August 2007. IJB. New to SS20.

Calystegia sepium ssp. sepium forma colorata

SX05. Edge of reedbed, Par Sands, SX088534. 24th August 2003. PH. New to SX05.

Calystegia silvatica (NEO)

SW54. St Ives, SW5140. 3rd July 2004. BCG. New to SW54.

Calystegia soldanella

SX04. At back of beach, Sconhoe Beach, SX01714651. 3rd June 2007. BCG. Last recorded in SX04 in 1980.

Campanula medium (NEO)

SX26. Single self-sown plant in pavement crack, Liskeard, SX251642. 26th June 2003. PRG. New to SX26 and First record for v.c. 1 since 1961.

Campanula portenschlagiana (NEO)

SX45. Several plants on old stone walls in Rowe Street, Torpoint SX441553, known for many years. 2006. PM & SCM. First record for Cornwall part of SX45.

Campanula poscharskyana (NEO)

SX27. Naturalised on riverbank in wood, Broad Wood, SX29047425. 25th June 2005. BCG. New for SX27.

Cardamine corymbosa (NEO)

SW53. In flowerpot from nursery south of St Erth Praze, SW53S. 2001. GH. New to SW53 and joint first record for Cornwall (also seen as nursery flowerpot weed by P.R. Green, Carkeel nursery, SX405606, 9th December 2001).

SX35. As a weed in flowerbed beside beach cafe, Seaton, SX30345440. 24th September 2005. BCG conf. P. R. Green. First record for SX35.

SX36. Weed in flowerpots, Coombegate Cottage, St Ive, SX320672. 14th March 2006. PRG. First record for SX36.

Carduus tenuiflorus

SX19. Trevigue, SX1395. 10th May 2006. BCG. First record for SX19 since 1957.

Carduus nutans

SX38. In pasture, northeast of Brockleford, SX31738100. 2nd October 2005. IJB. First for SX38 since before 1909.

Carex arenaria

SX19. Crackington Haven, SX1496. 25th July 2007. BCG. Last seen in SX19 before 1909.

SS21. Duckpool, SS2011. 12th June 2005. BCG. New for SS21.

Carex binervis

SW75. In heathy areas Trevellas Coombe, SW7252 and near Pen a Grader, SW7352. 24th April 2008. BCG. Last recorded in SW75 in 1980.

Carex canescens [*Carex curta*]

SW96. Goss Moor, SW95096002. 2nd June 2002. IJB. First record for SW96.

SS21. In very wet woodland, Shorestone Farm, SS257173. 11 June 2009. KP-M det. DAP, specimen with DAP. New to v.c.2 part of SS21. This species has been found nearby just across the border in North Devon, v.c.4 “in Culm grassland near Meddon, SS275188 (Bill Tucker, 1997) and also SS272180 (B. Hodgson, 2005). Both areas very wet with *Potentilla palustris* and *Pedicularis palustris*” (pers. comm. B. Hodgson).

Carex caryophyllea

SW54. Higher Pencobben, road south of, SW5942. 2nd June 2004. BCG. First record for SW54 since 1972.

SX03. Dodman Point, SX00353976. 19th June 2009. IJB & DAP. New to SX03.

Carex comans (ALIEN CASUAL)

SX84. Self-seeded plants on pavement outside Wig & Pen Public House, Castle Hill, Truro, SW82264490. September 2005. MJS conf. Eric J. Clement. 1st record for Britain.

Carex demissa [*Carex viridula* ssp. *oedocarpa*]

SW83. Beside ditch on open ground in wet woodland, south of Philleigh, SW8638. 7th October 2006. BCG. New to SW83.

SX07. Pendrift Downs, SX099746 & SX09797451. 25th May 2006. IJB. First for SX07 since 1980.

Carex hirta

SW74. In base of quarry, north of Carn Marth, SW71504089. 6th June 2009. IJB. New to SW74.

Carex divulsa* ssp. *divulsa

SX07. On road verge near junction, southeast of Tinten Manor, SX06977524. 2nd May 2005. IJB. New to SX07.

SX28. On base of road bank, between Newmills and Trewithick, SX29728516. 26th September 2008. IJB. New to SX28.

Carex montana

SW75. In cliff grassland and heath, St Agnes Head, SW70075152. 28th July 2002. IJB. First record for SW75 since 1988 and New locality for this rare sedge.

Carex muricata* ssp. *pairae [*Carex muricata* ssp. *lamprocarpa*]

SX19. South of Crackington Haven, SX14349629. 25th July 2007. BCG. Last seen in SX19 in 1973.

SX28. On waste ground beside old route of A30, Two Bridges, SX27058166. 19th June 2005. IJB. New for SX28.

Carex punctata

SX35. Four small colonies in fruit on cliff seepages at base of cliff, between Cargloth Cliffs and The Skerrish, SX33515382

(about 50 plants) and SX33555382 (about 50 plants), and Battern Cliffs, SX32995391 (about 3 plants) and SX32955392 (about 50 plants). 20th September 2008. IJB. Last recorded in SX35 (at this site) in 1888.

Carex remota

SW42. In marshy waste area near shore, south of Newlyn, SW467282. 2002. GH. New to SW42.

Carex rostrata

SW75. West of Goonhavern, on bank of pond, SW783536. 9th September 2004. NFS. First record for SW75 since 1964.

Carex sylvatica

SX08. Lanteglos, SX0882. 19th June 2007. IJB. New to SX08.

***Carex ×boeninghausiana* (*C. paniculata* × *C. remota*)**

SW84. Three plants with both parents present on edge of marshy area, east of Kiggon, SW858455. 3rd September 2005. PRG & MJS. First record for SW84 and first record for v.c. 2 since before 1925.

***Carex ×fulva* (*C. hostiana* × *C. demissa* [*C. viridula* ssp. *oedocarpa*])**

SX29. With both parents in Culm Grassland, Greena Moor Nature Reserve, SX24039547. 20th July 2008. Mark and Claire Kitchen (on Wild Flower Society meeting). New to SX29.

Carlina vulgaris

SW73. A few plants in grassy area Goodagrane Quarry, SW7432, probably introduced with topsoil as *Galium verum* also present. 22nd July 2009. BCG. Last recorded in SW73 in 1965.

Carpinus betulus

SX17. In hedge, South Penquite, SX10927518. 3rd August 2005. CNF. Last recorded in SX17 in 1972.

Carthamus tinctorius (ALIEN CASUAL)

SX05. West end of Par Beach, SX078532. 3rd August 2007. AAB, det. E.J. Clement. Last recorded in SX05 and Cornwall in 1930.

Catabrosa aquatica

SX46. Beside River Tamar, Calstock, SX43656843. 17th October 2008. IJB &

CR. Last recorded in v.c. 2 part of SX46 by I. Nicholson in 1958.

Catapodium rigidum

SW94. On shaly cliff, West Portholland, SW9541. 16th June 2009. IJB. New to SW94.

Centaurea nigra var. radiata

SX05. Frequent on road verge, Cuddra, SX043530 to SX043533. 16th June 2003. PH. Last recorded in SX05 in 1921.

***Centaurea cyanus* (ARC)**

SX06. A few plants in reseeded rye-grass ley, just off Copshorn Road, north of Bodmin, SX06426830, with *Anthemis cotula* and *Papaver rhoeas*. 2nd June 2007. IJB. Probably a seed contaminant. New to SX06.

SX35. Six small plants with Poppies (*Papaver rhoeas*) on sandy waste patch, on top road, Donderry, SX315541. July 2005. SCM & PM. New to SX35 (difficult to say for sure whether this population is wild or not but recorder notes it as wild).

Centaureum pulchellum

SW52. On barish ground in two fields, Greenberry Farm, SW5629. August 2007. PCa. New to SW52.

SW85. Several plants on track through old mine workings, East Wheal Rose Farm, west of, SW83605510, SW83655514, SW83625536. 12th August 2007. IJB & CNF. Last seen in SW85 (in same locality) in 1973.

SS21. In poached area on east side of small valley north of Sandymouth, SS20251004. 2nd July 2005. IJB. First record for SS21 since 1972.

Centaureum scilloides

SW32. At least 50 – 100 plants each in two places on exposed coastal cliffs: Gwennap Head, SW36782156; Roskestal West Cliff, north-western part SW36542201; at least one plant west of Hella Point SW36882155. 17th June 2010. LO & HO conf. IJB. First record for Cornwall since at least 1962, and one of only two native locations for this very rare species in the British Isles.

***Centunculus minimus* [*Anagallis minima*]**

SX27. On track south of Newton, SX24097902, with *Radiola linoides*,

Chamaemelum nobile and *Lythrum portula*, 5th August 2007. BCG. New to SX27.

Cerastium diffusum

SX03. Dodman Point, SX0039. 19th June 2009. IJB & DAP. Last recorded in SX03 in 1979.

Cerastium semidecandrum

SW61. In short grassland, Caerthillian Cove, SW695124. 8th April 2008. MU. Last recorded in SW61 before 1980.

SX05. Short turf, near Coastguard hut, Spit Point, SX07505246. 16th April 2009. and west end of Par Beach, SX07905326. 21st April 2009. Both DF. Last recorded in SX05 in 1971.

Ceratocarpus claviculata

SW53. Several huge patches along path from carpark to Trencrom Hill, SW517361. 7th May 2005. SC. First record for SW53 since 1977, very rare in west Cornwall.

***Ceratochloa carinata* (NEO)**

SW42. By Wherrytown boating pool, Penzance, SW467295. 2001. GH. New to SW42.

Cerintho major var. purpurascens

(ALIEN)

SX06. Ebenezer, naturalised on road verge, SX03666022. 6th April 2007. IJB. New to SX06.

***Chaenorhinum minus* (ARC)**

SX15. On platform, Lostwithiel Station, SX107598. 6th June 2005. PH. First record for SX15 since 1966 (at the same place as in 1966, this is the only site for SX15).

***Chenopodium capitatum* (NEO)**

SX45. Churchtown Farm. 2005. RWG. With sown *Chenopodium quinoa* and *Helianthus annuus* (bird cover and food crop) in two fields, SX416580 & SX418574. 22nd September 2005. MA & AA. First seen by RWG and reported to IJB. MA & AA found some but SCM and PM also looked but could not find any. New to SX45 and second record for Cornwall.

Chenopodium rubrum

SX44. Abundant as weed in arable field, Rame Head, SX4249. September 2004. AECA. New to SX44.

Cicendia filiformis

SW75. Sixty plants on pond margin, Ventongimps Moor, SW78165097. 17th July 2009. CNF. Last recorded in SW75 (at Ventongimps Moor) in 1982.

***Cichorium intybus* (ARC)**

SW42. Two large plants inside A30 roadside wall below Southern Comfort flats, Wherry Town, SW46652940. 2008. GH. New to SW42.

SW95. On west side of A30 at northeast end of Indian Queens bypass, SW95J. 2001. GH. New to SW95.

***Cirsium xcelakovskianum* (*C. palustre* × *C. arvense*)**

SX28. A few plants in field next to road hedge, Trewithick, west of Launceston, SX29498538. 26th September 2008. IJB conf. K. J. Walker. Growing with *Cirsium arvense* and *C. palustre* nearby. New to SX28, and second record for VC2 since 1929 (also recorded in SW83 Tetrad R IN 2004).

***Claytonia sibirica* (NEO)**

SX39. Beside River Tamar, Tamerton Town Farm, North Tamerton, SX3295 and SX3296. 1st July 2006. BCG. New to v.c. 2 part of SX39.

Clinopodium vulgare

SX26. On road bank, southeast of Kircumb, SX27726301. 14th August 2005. IJB. Road verge beside A38, south of 'Factory', SX26876236. 14th August 2005. IJB. Both first records for SX26.

Cochlearia danica

SX37. Near Monkscross, SX3871. 2nd June 2009. CR. New to SX37.

Cochlearia officinalis

SX16. Two Waters Foot, SX18686496. 8th May 2009. IJB. New to SX16.

***Coincya monensis* ssp. *cheiranthos* (NEO)**

SW94. One plant by track near Little Polgooth, SW998498. 2nd August 2004. PH. New to SW94.

SX04. At back of beach, Sconhoe Beach, SX01714651. 3rd June 2007. BCG. Last recorded in SX04 in 1954.

***Conium maculatum* (ARC)**

SW85. Beside footpath on edge of St Newlyn East Golf Course, SW837555. 12th August 2007. IJB. New to SW85.

Convolvulus arvensis

SX26. Abundant on hedge west of chapel, Pensilva, SX2969. 23rd August 2007. AA, MA, IJB, CR. Last recorded in SX26 in 1955.

***Conyza bilbaoana* (NEO)**

SX15. Fowey, on roadside bank, SX123518. 31st July 2009. PH. New to SX15.

SX45. A few plants close to Torpoint Ferry slipway in private car park for ferry staff, SX4455. PP. 5th November 2006. New to Cornwall part of SX45.

***Conyza bonariensis* (NEO)**

SW43. Platform edge of railway siding by station car park, Penzance, SW4730. 2002. GH conf. E.J. Clement, LANC. New to SW43 and second record for Cornwall.

***Conyza canadensis* (NEO)**

SW42. Single robust plant on car-park wall top on south side of promenade road, Wherrytown, SW468295. 1st October 2007. GH. New to SW42.

SX28. Road verge of the A30 dual carriageway north of Higher Trevell, SX261808. 28th September 2008. IJB. New to SX28.

SX38. Western Terrace, Launceston, SX328843 and Pennygillam Industrial Estate, SW323834. 2007. T. Baker. New to SX38.

SS20. Beside path, Bude Canal, SS20760608. 10th August 2007. IJB. New to SS20.

***Conyza sumatrensis* (NEO)**

SW43. Railway siding by station car park, Penzance, SW4730. 2002. GH. New to SW43. Second record for Cornwall.

SW54. Dove Street, St Ives, SW51724036. 16 September 2006. CNF. New to SW54.

SW76. Grass verge outside garden, East Pentire, Newquay, SW791613. 3rd September 2006. HMM. New to SW76.

SW84. Garden weed, 11 Ferris Town, Truro, SW821448. 27th May 2002. PH. New to SW84. First record for Cornwall.

SX45. One plant noted in wasteland in side road opposite and north of Queen's Arms close to Torpoint Ferry slipway, SX4455. 5th November 2006. PP. New to Cornwall part of SX45 and East Cornwall v.c. 2.

Cordyline australis (NEO)

SX05. Self-sown seedlings on roadside, Par Beach, SX084535. 3rd October 2002. PH. New to SX05.

Cornus sericea (NEO)

SW96. Established on waste ground, St Breock Beacon, SW968683. 7th September 2007. IJB. New to SW96 and v.c. 2.

Cotoneaster bullatus (NEO)

SX36. Two bushes self-sown in hedge on top of field bank on roadside, St Ive Cross, SX318671. 10th December 2005. PRG & IPG. New to SX36.

Cotoneaster horizontalis (NEO)

SW61. Beside track through heathland, southeast of Grochall, SW699142. 2nd October 2004. IJB. New to SW61.

Crambe maritima

SW82. One plant at back of beach, Porthoustock, SW80772174. 1st July 2006. IJB, RJM & DAP. New to SW82.

Crassula helmsii (NEO)

SW33. In small pond, southeast of Higher Botallack, SW38273273. 31st December 2008. IJB. New to SW33.

SW43. Rare around fishing lakes, Beagletodn, Towednack, SW484378. 1st July 2005. DAP & AVP. First record for SW43.

SW74. Halbullock Moor, SW795444. 2nd August 2004 (first seen in 1999). Ian French. Springfield Farm, Allet, SW791488. 20th August 2004. J.M. Cook. First and second records for SW74.

SX18. one patch on edge of Crowdy Reservoir, SX14208330. 31st July 2005. BCG. First record for SX18.

SX19. In small pond beside road, Trevigue, SX13609522. 10th May 2006. BCG. New to SX19.

Crassula helmsii is now found on the edges of most reservoirs in Cornwall.

Crassula tillaea (INT)

SW53. On car park, west of Marazion, SW513309. 4th March 2005. DAP & CDP. New to SW53.

SW72. Thousands of plants entirely covering overflow car park, Trebah, SW76852762. 3rd May 2005. DAP & AVP. New to SW72.

Crepis vesicaria (NEO)

SS21. On verge, west of Marsborough, SS2314. 24th August 2008. IJB. New to SS21.

Crocus vernus ssp. vernus (NEO)

SX05. Waste ground, Par, SX076536. 11th February 2003. PH. New to SX05.

Cuscuta epithymum

SX35. Skinner's Ball Cliff, SX367536. 1st October 2008. IJB & CR. Last recorded in SX35 in 1918.

Cynosurus echinatus (NEO)

SW53. Many plants on west side of track, opposite Chy-an-Mulva, Riviere Towans, SW55513866. 1st June 2005. DAP & AVP. First for SW53 since 1982.

Cyperus eragrostis (NEO)

SW96. Established on waste ground, St Breock Beacon, SW968683. 7th September 2007. IJB. New to SW96.

SX25. Millendreath, SX26645403. 12th October 2006. CNF. New to SX25.

Dactylorhiza fuchsii var. cornubiensis

SW54. Six flowering plants in old quarry, Carthew, north of, near St Ives, SW51084090. 3 July 2004. BCG Det. I. J. Bennallick. New to SW54.

Dactylorhiza incarnata ssp. pulchella

SX06. One plant in wet heath, Retire Common, SX00326305. 26th July 2008. IJB. Last recorded in this site and in SX06 in 1980.

***Dactylorhiza ×hallii* (*D. maculata* × *D. praetermissa*)**

SW96. In marsh with both parents, south of Tregonhay Farm, SW99866021. 14th June 2009. DF. New to SW96.

***Dahlia ×hortensis* [*Dahlia ×cultorum*] (NEO)**

SS10. Red flowers with doubled centre, appears to be throwout, but not near houses, edge of sand dunes in brambles, Widemouth Bay, SS1901. 2nd September 2005. GDK. First record for Cornwall.

Danthonia decumbens

SX03. Dodman Point, SX00353976. 19th June 2009. IJB & DAP. New to SX03.

Daucus carota* ssp. *gummifer

SW82. On cliff turf, Porthoustock, SW8021. 1st July 2006. IJB & DAP. New to SW82.

***Deutzia scabra* (NEO)**

SX05. Casual in cliff-top thicket, Duporth, SX034510. 9th June 2003. PH. New to Cornwall.

***Digitaria sanguinalis* (NEO)**

SX05. Casual at foot of wall, St Austell, SX015525. 8th September 2006. PH. New to SX05.

***Diplotaxis muralis* (NEO)**

SX15. Roadside, Fowey, SX124514. 2nd June 2003. PH. Last recorded in SX15 in 1976.

SX35. Weed in vegetable garden, Portwrinkle, SX3553. 2nd October 2008. IJB. Last recorded in SX35 before 1930.

***Disphyma crassifolium* (NEO)**

SW42. Two patches on cliff, Treen Cliff, SW402223. 2008. GH. New to SW42.

SX35. Naturalised, Downderry, SX3153. 25th September 2008. IJB. New to SX35.

Dryopteris aemula

SW33. Five plants on south side of hedge, north of Carn Kenidjack, SW38853323. 16th January 2009. IJB. New to SW33.

SW62. Chyvarloe, in wood north of, SW65302394. 21st July 2007. BCG. Last seen in SW62 in 1983.

Dryopteris affinis* ssp. *paleaceolobata

SX06. On side of bank, southwest of Polbrock Bridge, SX013695. 17th September 2007. IJB, MJS & KT, det. K. Trewren. New to SX06.

Dryopteris borrieri

SX45. Cawsand, SX4350. 23rd October 2005. BCG. New to SX45.

Dryopteris borrieri* var. *robusta

SX06. On side of bank, southwest of Polbrock Bridge, SX013695. One plant beside path, Breney Common, SX05606104. 17th September 2007. IJB, MJS & KT, det. K. Trewren. Both new to SX06.

Dryopteris cambrensis

SX06. On side of bank, southwest of Polbrock Bridge, SX013695. 17th September 2007. IJB, MJS & KT, det. K. Trewren. New to SX06.

SX15. Hedgebank, north of Fowey, SX125523. 17th September 2007. KT, det. K. Trewren. New to SX15.

Dryopteris carthusiana

SX17. In mire east of Butter's Tor, SX159780. 12th July 2006. IJB. New to SX17.

SX36. Two clumps in wet woodland, west of Swiftaford, SX39126276. 28th August 2006. IJB. New to SX36.

***Dryopteris ×complexa* agg. (*D. filix-mas* × *D. affinis*)**

SX27. In hedge near Upton Barton, SX245798. 5th August 2007. MJS on BCG meeting. 95% abortive spores. In woodland, Upton Wood, SX250794. 5th August 2007. MJS on BCG meeting. 99% abortive spores. New to SX27.

SS21. In wood, Stowe Wood, SS21441158. 13th September 2009. BCG/BSBI, det. K. Trewren. New to SS21.

***Eccremocarpus scaber* (ALIEN)**

SX05. In thicket, Polmear, SX083536. 13th August 2001. PH. New to SX05 and v.c. 2 (Last recorded in Cornwall in 1981).

***Echinochloa crus-galli* (NEO)**

SW76. Edge of pavement, East Pentire, Newquay, SW793613. 5th September 2006. HMM. New to SW76.

SX16. Beside road east of Higher Newton, St Neot, SX192681. 30th July 2006. TP. New to SX16.

Echium pininana (NEO)

SW42. Self-sown, Laregan Hill, Wherrytown, SW465294. 2005. GH. New to SW42.

SW54. Windsor Hill, north side of, St Ives, SW51504052. 3 July 2004. BCG. New to SW54.

Echium vulgare

SS21. On open areas of rabbit grazed hillside, Sandymouth, SS20461016. 2nd July 2005. BCG. New for SS21.

Egeria densa (NEO)

SW63. Several plants in Cargenwen Reservoir (Crowan Reservoir), SW651352. 12th October 2004. IJB. Second record for Cornwall.

SW43. Carfury Quarry, SW444340. 9th July 2005. DAP & AVP. Third record for Cornwall.

SW95. In ditch at Domellick, SW94215873. 23rd September 2004. IJB conf. T.C.G.Rich. New to Cornwall.

SX06. Abundant in new pond, Trebell Green, SW05966263. May 2008. T. Renals. Eradicated from pond shortly after identification. New to SX06.

SX27. In pool in Cheesewring Quarry, SX258723. 15th September 2008. LC. New to SX27.

Eleocharis multicaulis

SW54. Burthallan Cliff, SW5041. 3rd July 2004. BCG. Last recorded in SW54 in 1976.

Eleocharis palustris

SX39. Tamerton Town Farm, North Tamerton, SX3196. 1st July 2006. BCG. First record for SX39 since before 1960 and new to v.c. 2 part of SX39.

Eleocharis quinqueflora

SW72. Patch of about 0.5 square metre, Goonhilly Downs, SW72172055. 8th May 2005. AMcV det. IJB. Last recorded in SW72 in 1982.

Eleocharis uniglumis

SW62. In mown areas of golf course, Gunwalloe, SW66122071, 27th June 2005. IJB & DAP. New to SW62.

Elodea nuttallii (NEO)

SW97. In Polmorla Stream, Wadebridge, SW989721. 27th July 2005. IJB. First record for SW97.

Elytrigia xacuta (*E. atherica* × *E. juncea*)

[*Elytrigia xobtusiuscula*]
SW97. Back of beach, Pentireglaze Haven, SW935796. 31st July 2009. IJB, CNF, DAP, AVP and MB, conf. Dr. T. Cope (as *Elytrigia xobtusiuscula*). Last recorded for SW97 in 1979 (SW929776, Daymer Bay, R.W. David).

Epilobium brunnescens (NEO)

SW97. On retaining wall beside Polmorla Stream, Wadebridge, SW989721. 27th July 2005. IJB. First record for SW97.

SS21. On woodland track, Stowe and Lee Wood, Coombe Valley, SS2111. 12th June 2005. BCG. New for SS21.

Epilobium hirsutum

SX27. In marshy field, west of Trewinnow Cross, SX2879. 12th May 2005. IJB. New to SX27.

Epilobium hirsutum forma albiflora

SS21. Christmas tree plantation, east of Kilkhampton, SS2611. 31st August 2005. GDK. First record for Cornwall.

Epilobium lanceolatum

SW82. On edge of disused quarry, Porthoustock, SW80892204, 2nd July 2006. IJB & DAP. New to SW82.

Epilobium montanum forma albiflora

SS21. Woodland ride, Coombe Wood west of Kilkhampton, SS2111. 31st August 2005. GDK. First record for Cornwall.

Epilobium roseum

SS20. On pavement, Bude, SS2006. July 1981. LP. On pavement, Bude, SS20940647. 19th July 2008. IJB & MJS. First and second record for SS20.

SW64. Garden weed, Shang-ri-la, Reskadinnick, SW63854172. 26th August 2009. IJB & RJM. Last recorded in SW64 (in SW6542) in 1967.

SW96. Abundant as garden weed, Tregatillian, SW92496305, 3rd August 2007. IJB. New to SW96.

***Epilobium* × *aggregatum* (*E. montanum* × *E. obscurum*)**

SS21. Two plants in felled woodland, Rookery Wood, west of Kilkhampton, SS23301207. 27th August 2005. GDK. two plants on woodland ride, Coombe Wood west of Kilkhampton, SS2111. 31st August 2005. GDK. Both new to SS21.

***Epilobium* × *dacicum* (*E. parviflorum* × *E. obscurum*)**

SS21. One plant in Christmas tree plantation, east of Kilkhampton, SS2611. 28th August & 31st August 2005. GDK. New to SS21.

***Epilobium* × *floridulum* (*E. parviflorum* × *E. ciliatum*)**

SS21. In arable field margin with parents, west of Kilkhampton, SS24531105. 27th August 2005. Seven plants in farmyard, Morwenstow Rectory Farm, SS20591512. 28th August 2005. One plant on woodland ride, Coombe Wood west of Kilkhampton, SS2111, 31st August 2005. Christmas tree plantation, east of Kilkhampton, SS2611, 28th August & 31st August 2005. GDK. All new to SS21.

***Epilobium* × *interjectum* (*E. montanum* × *E. ciliatum*)**

SW73. Burncoose Nurseries, Gwennap, SW742393, 17th July 2005, DAP & AVP, det. G.D. Kitchener. First for SW73 since 1963.

***Epilobium* × *limosum* (*E. parviflorum* × *E. montanum*)**

SS21. Two plants on woodland ride, Coombe Wood west of Kilkhampton, SS2111. 31st August 2005. GDK. New to SS21.

***Epilobium* × *obscurescens* (*E. obscurum* × *E. brunnescens*)**

SX18. Twenty-six plants with parents in flush on gravelly slope at SX12788078, and several plants on damp gravelly slope SX12908091, in China clay quarry west of Rough Tor. 2nd September 2005. GDK. New to SX18.

***Epilobium* × *vicinum* (*E. obscurum* × *E. ciliatum*)**

SS21. Two plants in felled woodland, Rookery Wood, west of Kilkhampton, SS23301207. In arable field margin with parents, west of Kilkhampton, SS24321133. 27th August 2005, GDK. Eight plants on woodland ride, Coombe Wood west of Kilkhampton, SS2111. Eleven plants east of Christmas tree plantation, Kilkhampton, SS2611. 31st August 2005. GDK. All new to v.c.2 part of SS21.

Equisetum telmateia

SX08. Bossiney Haven, SX06598928. 5th July 2007. IJB. Last recorded here and in SX08 in 1981.

***Equisetum* × *litorale* (*E. fluviatile* × *E. arvense*)**

SW43. Abundant in ditch by concrete track leading from Treen village down to Lean Point, SW436378. 2004. GH. New to SW43.

SX36. On base of hedge near ditch, south of Cross Town Farm, SX39986170. 26th August 2008. IJB & CR. New to SX36.

SX46. On base of hedge near ditch, south of Cross Town Farm, SX40006170. 26th August 2008. IJB & CR. New to SX46.

SX47. Beside River Tamar, Gunnislake, SX4371. 28th June 2007. IJB & CR. New to SX47.

Erica ciliaris

SW64. Edge of footpath, in heathy area, Chapel Coombe, SW699492, 9th August 2008, IJB. New to SW64.

***Erica lusitanica* (NEO)**

SX05. Field hedge, Tywardreath, SX082541. 20th October 2008. PH. New to SX05.

***Erigeron acris* [*Erigeron acer*]**

SW87. One plant on top of sand dunes, Costantine Bay, SW85987478. 10th June 2009. TJD. Last recorded here and for SW87 in 1966 (by L. J. Margetts).

***Erigeron glaucus* (NEO)**

SW82. Porthoustock, SW806218. 1st July 2006. IJB, RJM & DAP. New to SW82.

SX15. Naturalised on pavements, Fowey, SX1251, 5th July 2007. IJB. New to SX15.

Erigeron karvinskianus (NEO)

SW76. Riverside Avenue, Pentire, SW7961, 5th April 2007. IJB, HMM & RJM. New to SW76.

SX47. On wall in Latchley, SX408735. 17th June 2005. MA. First record for SX47 since 1975.

Erodium maritimum

SW54. Godrevy Point, SW5843. 2nd June 2004. BCG. First record for SW54 since 1977.

SS20. On cliff path, Menachurch Point, SS20190872, 19th July 2008. IJB & MJS. New to SS20.

Erodium moschatum

SX05. Casual on roadside hedgebank, Tywardreath, SX081541, 16th July 2007. PH. Last recorded in SX05 in 1957.

Erysimum cheiranthoides (ARC)

SW73. One plant in weedy arable field used for Narcissus bulbs, Halabezack Farm, SW70293466. 23rd September 2005. IJB & PAG. First record for SW73.

SX36. In arable fields between Popham and Leigh Lane, SX38356248, SX38666298, SX38606276. 28th August 2006. IJB. First record for SX36 since 1979.

Erysimum cheiri (ARC)

SX05. On, and at base of mortared wall, Charlestown, SW037518. 24th March 2003. PH. New to SX05.

Escallonia macrantha (NEO)

SW95. Old Pound Farm, on hedge, SW974554. 22nd August 2007. BCG. New to SW95.

SX38. On side of old route of A30, west of Trebursye Oak, SX305840. 16th August 2007. IJB. New to SX38.

SS20. Roadside wall of St Michael's churchyard, Bude, SS203061. 1st June 2005. PMG. New to SS20.

SS21. Beside road, Coombe Valley, SS2011. 12th June 2005. BCG. New for SS21.

Eschscholzia californica (NEO)

SW86. In waste area, southeast of Penrose Farm, SW8564. 13th June 2005. IJB, HMM & DT. First record for SW86.

SW97. On pavement, Egloshayle, SW9972. 22nd October 2008. IJB. New to SW97.

SX15. Roadside, Fowey, SX124514. 2nd June 2003. PH. New to SX15.

Euonymus europaeus

SW86. West of St Mawgan, SW8666. 4th February 2007. IJB. First record for SW86 since 1935.

Euonymus japonicus (NEO)

SW87. One small shrub in waste area, Porthcothan, SW859719. 28th July 2008. IJB. New to SW87.

SX05. In scrub at edge of track, The Mount, Par, SX071532. 14th April 2003. PH. New to SX05.

SX47. Greenhill Works, SX42097197. 24th October 2008. IJB & CR. New to SX47.

Euphorbia characias* ssp. *veneta
[*Euphorbia characias* ssp. *wulfenii*] (NEO)

SX15. Casual garden escape at base of roadside wall. Fowey, SX120512. 20th March 2003. PH, det. J. Stephenson. New to SX15.

Euphorbia corallioides (NEO)

SX05. Casual by coast path near Duporth, SX036513. 16th May 2005. PH, det. Timothy Walker. New to v.c. 2 and Cornwall.

Euphorbia cyparissias (NEO)

SX15. Naturalised on mortared wall, Fowey, SX124517. 2nd June 2003. PH det. Timothy Walker. New to SX15.

Euphorbia helioscopia (ARC)

SX27. In arable field south of Trekernell, SX25447861, with *Spergula arvensis*, *Stachys arvensis*, *Viola arvensis*, *Myosotis arvensis*, *Fallopia convolvulus*, *Veronica arvensis*, *Galeopsis tetrahit*. 5th August 2007. BCG. New to SX27.

Euphorbia lathyris (ARC)

SW76. Naturalised on road verge, Riverside Avenue, Pentire. 5th April 2007. IJB, HMM & RJM. New to SW76.

SX05. One plant on road verge, CRINNIS, SX052522. 8th August 2009. PH. NEW TO SX05.

Euphorbia paralias

SX04. Beach at Pentewan, SX0247. 28th July 2005. DN. New to SX04.

***Euphorbia* × *pseudovirgata* (*E. waldsteinii* × *E. esula*) (NEO)**

SW83. Falmouth Docks, SW83. 10th June 1917. E. Thurston & J. Hutchinson, det. A. Radcliffe-Smith, **K**. New to Cornwall.

SX05. Par Docks, SX05. 14th June 1946. R.A.F. Brennan, det. A. Radcliffe-Smith, **K**. Second record for Cornwall and new to v.c. 2. Both records kindly passed to Cornwall recorders by DAP.

Euphrasia arctica* ssp. *borealis

SW27. On turf beside lane to Wimalford, SX214735. 19th July 2006. BCG det. B. Hodgson. First record for SX27 since before 1909 and Cornwall since 1977.

Euphrasia confusa

SX38. In grassy slope above wood, northeast of Hornacott, SX30388000. 2nd October 2005. IJB. New to SX38.

Euphrasia micrantha

SW85. Several plants beside track through old mine workings west of East Wheal Rose Farm, SW83605510, 12th August 2007. IJB & CNF. Last seen at this locality and in SW85 before 1981.

Euphrasia tetraquetra

SS21. In coastal turf, north of Sandymouth, SS20271010. 2nd July 2005. IJB. New for SS21.

Euphrasia vigursii

SW96. About 200 plants in small area of boggy heathland, Rosenannon Downs, SW95726726. 2nd September 2007. IJB. Some flowers with white lower lips. Known from this site since 1956, last seen in 1996.

Euphrasia nemorosa* × *E. confusa

SX06. On compacted area near pond, Breney Common, SX05556100. 17th September 2007. IJB, det. IJB. New to SX06.

***Fagopyrum esculentum* (NEO)**

SX44. Abundant as weed in arable field Rame Head, SX4249. July 2004. AECA. New to SX44.

SX05. St Blazey, casual on roadside, SX072545. 21st September 2009. PH. Last recorded for SX05 in 1901.

***Fallopia baldschuanica* (NEO)**

SW53. Near Truthwall, SW5332. September 2004. GB. First record for SW53 since 1982.

SX05. Naturalised on waste ground north of Stenalees, SX015574. 11th September 2009. PH. New to SX05.

SX47. Drakewalls, SX4270. 20th June 2007. IJB & CR. New to SX47.

***Fallopia convolvulus* (ARC)**

SX18. Trewassa, SX1486. 5th July 2009. BCG. Last recorded in SX18 in 1957.

SX27. In arable field south of Trekernell, SX25447861, with *Spergula arvensis*, *Stachys arvensis*, *Viola arvensis*, *Myosotis arvensis*, *Euphorbia helioscopia*, *Veronica arvensis*, *Galeopsis tetrahit*. 5th August 2007. BCG. New to SX27.

SX28. Edge of car-park of BP filling station, Plusha, SX24738020. 5th August 2007. IJB. Last seen in SX28 in 1957.

***Fascicularia bicolour* (NEO)**

SW52. Naturalised, St Michael's Mount, SW515298. 16th October 2008. MU. New to SW52.

SW83. A large patch established on waste ground near public footpath, Place, SW85643202, frosted by earlier hard frosts. 30th December 2009. BCG. New to SW83.

Festuca longifolia

SW93. On exposed cliff and rock outcrops, Nare Head, SW91913716. 11th October 2004. IJB, det. RJM and conf. (chromosome counts) John Bailey. Appears to be abundant. First for Cornwall.

Festuca ovina

SW94. Car park, Porthluney Cove, SW97344140. 8th July 2008. CNF. Last recorded in SW94 before 1909.

Filago vulgaris

SS21. Over 100 plants in open areas of rabbit grazed hillside, Sandymouth, SS20461016. 2nd July 2005. BCG. First record for SS21 (at Sandymouth) since 1986.

Foeniculum vulgare (ARC)

SX19. Road verge, east of Marshgate, SX162920. 10th August 2007. IJB. Last seen in SX19 before 1909.

Fragaria ananassa [*Fragaria xananassa*] (NEO)

SW85. Naturalised on road verge, Zelah Hill, SW81565236. 22nd October 2007. IJB. New to SW85.

SX28. Road verge, Plusha, SX25098018. 5th August 2007. IJB. New to SX28

Frankenia laevis (INT)

SS20. On wall, established, Bude, SS20350641. 19th July 2008. TJD. New to SS20.

Fritillaria meleagris (INT)

SX45. At least 15 plants established in grassland beside Millbrook pool, c. SX428524. 11th April 2007. Chris and Janet Duffy. New to SX45.

Fuchsia magellanica (NEO)

SW95. Old Pound Farm, on hedge, SW974554. 22nd August 2007. BCG. New to SW95.

Fuchsia 'Riccantonii' (NEO)

SS21. Beside road, Coombe Valley, SS2011. 12th June 2005. BCG. New for SS21.

Fumaria bastardii

SS20. Beside path, Bude Canal, SS20760608. 10th August 2007. IJB. Last recorded in SS20 before 1962.

Fumaria muralis* ssp. *boroei [*Fumaria muralis* ssp. *boraei*]

SX17. South Penquite, SX110757. 20th July 2005. CNF. New to SX17.

Fumaria officinalis* ssp. *officinalis (ARC)

SX16. Set-aside arable field near West Taphouse, SX155639. 24th June 2005. MA. First record for SX16.

SX46. In bulb-field Bohetherick, SX422676. 17th June 2005. MA. First record for SX46 since 1958.

Galactites tomentosus [*Galactites tomentosa*] (ALIEN)

SW43. One plant naturalised in pavement crack at base of wall, Chyandour, Penzance, SW48173126. 28th May 2005. IJB, PRG, MJS. First record for v.c. 1 and Cornwall.

Galanthus elwesii (NEO)

SX05. Two plants on road verge, near Treesmill, SX090548. 7th February 2003. PH. New to SX05.

Galanthus nivalis (NEO)

SW32. Roadside bank, Crean Mill, SW393246. 2009. GH. New to SW32.

SX19. Roadbank, Coxford, SX16179685. 18th March 2009. IJB. New to SX19.

Galeopsis bifida

SW97. On edge of arable field, northwest of Three Holes Cross, SX007740. 13th August 2009. IJB & CB. New to SW97.

SX04. In barley field margin, west of Lobb's Shop, SX020495. 25th July 2005. PH. New to SX04.

SX25. In corner of wheat field, Waylands Farm, SX22985331. 15th August 2006. CNF. New to SX25.

Galium murale (ALIEN)

SX15. Ten plants on pavement outside Town Clerk's office, Lostwithiel, SX10355980. 12th May 2007. MJS. Specimen collected by IJB on 22nd May 2007 and confirmed by R. Burton. Specimen in **BM**. New to Cornwall.

Galium odoratum

SX26. Pensilva, SX298698. 13th May 2006. KP-M. Last seen in SX26 in 1980.

SX29. Week St Mary, SX2497. May 2006. Valerie Littleton det. IJB. New to SX29.

Galium palustre* ssp. *elongatum

SW97. In marsh, Harbour Cove, SW9177. 13th July 2004. IJB. Beside Polmorla Stream, Wadebridge, SW989721. 27th July 2005. IJB. First and second record for SW97 since before 1909.

SS20. In marsh, Bude Marshes, SS208057. 10th August 2007. IJB. New to SS20.

***Galium parisiense* (INT)**

SW84. On bare ground near County Hall, Truro, SW81324462. 2nd July 2007. MJS, conf. Rodney Burton. New to SW84 and v.c. 1.

Galium uliginosum

SX19. In marshy area above Dizzard Wood, SX161988. 23rd May 2008. BCG. Last recorded in SX19 in 1977.

Galium verum

SX36. In species rich grassland and fen, west of Swiftaford, SX39276292. 28th August 2006. IJB. New to SX36.

Another unusual inland record for this species. In Cornwall it usually grows in turf along the coast. In this particular site it was growing with *Succisa pratensis*, *Carex flacca*, *Filipendula ulmaria*, *Angelica sylvestris*, *Galium palustre*, *Pulicaria dysenterica*, *Agrimonia procera*, *Centaurea nigra*, *Deschampsia cespitosa*, *Molinia caerulea* and encroaching brambles.

***Gazania rigens* (NEO)**

SW43. Naturalised in pavement cracks, Chyandour, Penzance, SW48173126. 28th May 2005. IJB, PRG, MJS. First record for SW43.

Genista pilosa

SW71. Treleaver Cliff, SW77091614. 29th May 2005. BCG. First for SW71 since 1983.

Genista tinctoria* ssp. *littoralis

SW81. Several plants on coastal grassland, Lowland Point, SW80081947. 6th July 2006. IJB. New to SW81.

SS20. Small patch in cliff-top sward, south of Menachurch Point, SS20190872. 19th July 2008. IJB & MJS. First for SS20 since 1886.

Gentianella campestris

SW37. Kit Hill, SX374709, 59 plants counted. 5th August 2005. HH (Univ. of Sheffield). Updated record for this now very rare plant in Cornwall.

Geranium columbinum

SW43. On edge of back garden wall, Engine Inn, near Cripples Ease, SW499368. 28th June 2007. DW. Last recorded in SW43 in 1974.

***Geranium endressii* (NEO)**

SX07. Road verge above town, Egloshayle, SX000772. 22nd October 2008. IJB. New to SX07.

***Geranium macrorrhizum* (NEO)**

SX05. Four plants in roadside hedgebank, Tywardreath, SX083542. 12th May 2005. PH, det. A. Norton. New to SX05.

***Geranium phaeum* (NEO)**

SX15. On road verge between shop and car park, Lerryn, SX140570. 14th May 2007. DW. Last recorded in SX15 in 1906.

***Geranium pratense* (INT)**

SW87. On road verge, Porthcothan, SW860719. 28th July 2008. IJB. Last recorded in SW87 in 1966.

Geranium purpureum

SW43. On edge of back garden wall, Engine Inn, near Cripples Ease, SW499368. 28th June 2007. DW. Last recorded in SW43 in 1981.

SW61. Several plants together by roadside on northwest side of road between Mullion cricket field and village centre, Mullion, SW6718. 26th June 2005. PP. New for SW61.

Geranium pusillum

SW43. On edge of back garden wall, Engine Inn, near Cripples Ease, SW499368. 28th June 2007. DW. Last recorded in SW43 in 1888.

***Geranium pyrenaicum* (NEO)**

SX05. On mortared wall, St Austell, SX007528. 8th June 2005. PH. New to SX05.

Geranium rotundifolium

SX47. Gunnislake, SX4270. 20th June 2007. IJB & CR. New to SX47.

Geranium sanguineum (INT)

SW87. Base of Cornish hedge, Trevone Road, Trevone, SW89557523. 20th October 2007. BL. New to SW87.

Geranium versicolor (NEO)

SX05. Luxulyan churchyard, SX053581. 4th June 2003. M.D. Bradford. First record for SX05 since before 1922.

SX46. Botusfleming, SX4061. 26th August 2008. IJB & CR. Last recorded in SX46 before 1980.

SX47. Gunnislake, SX4270. 20th June 2007. IJB & CR. New to SX47.

Geranium ×magnificum (*G. ibericum* × *G. platypetalum*) (NEO)

SW75. Cubert, SW789570. 17th June 2006. RJM & DAP. New to SW75.

Geranium ×oxonianum

(*G. endressii* × *G. versicolor*) (NEO)

SX26. Naturalised on grass verge, Pensilva, SX287698. 23rd August 2007. MA, AA, IJB, CR. New to SX26.

Geum urbanum

SW33. In small lane, west of Hallgolluir, SW3832. 31st December 2008. IJB. New to SW33.

Gladiolus communis* ssp. *byzantinus (NEO)

SX37. Naturalised in hedge, Linkinhorne, SX31837347. 18th June 2006. IJB. New to SX37.

Glaux maritima

SX08. On rocks below sea wall, Trebarwith Strand, SX0486. 17th September 2008. BCG. Last recorded in SX08 in 1915.

Glebionis coronaria [*Chrysanthemum coronarium*] (ARC)

SW74. One plant by hedge, crossroads north of Chacewater, SW758447. 4th May 2007, still there in August 2007. DAP, AVP & KJW. New to SW74.

Glyceria notata

SW62. frequent along edge of marsh and field, Gunwalloe Marsh, SW66252094. 27th June 2005. IJB & DAP. First record for this site since before 1983.

Gunnera manicata (NEO)

SX05. Three plants Chynoweth, SX01655760. 20th April 2009. DF. New to SX05.

Gunnera tinctoria (NEO)

SX26. south of Lodge Hill, by level crossing, SX241631. 13th May 2005. KP-M. First record for SX26.

Helianthus annuus (NEO)

SW96. Several large plants on waste ground on heath, near Royalton Mine, Brynn, SW97966173. 28th September 2005. IJB. New to SW96.

SX25. In crop of barley field, Hall Barton Farm, SX20545556. 24th August 2006. CNF. New to SX25.

SX35. Several plants on cleared building site above car park, Downderry. SX314544. September 2005. SCM & PM. New to SX35.

Helleborus orientalis (NEO)

SW97. Several plants in woodland, Coronation Park (Dunveth Wood), SW98537202. 30th August 2006. IJB. New to SW97.

Helleborus viridis* ssp. *occidentalis (INT)

SX05. Naturalised on roadside hedgebanks, Tywardreath, SX081543. 10th April 2006. PH. Last seen in SX05 before 1922.

SX36. A few plants in woodland beside stream, north of Dean's Bridge, SX38246242. 28th August 2006. IJB. First record for SX36 since before 1909.

Helminthotheca echioides [*Picris echioides*] (ARC)

SX18. Roadside, Tich Barrow, SW1488. 5th July 2009. BCG. New to SX18.

Hesperis matronalis (NEO)

SW95. In rough area beside road, near Nanpean Cemetery, SW964559. 22nd August 2007. BCG. New to SW95.

SW96. Roadside verge, north of St Breock Downs Farm, SW98226902. 28th May 2007. IJB. New to SW96.

Hieracium scotostictum (NEO)

SX05. Several plants on wall, Par Green, SX078536. 19th June 2005. PH, det. D.J.McCosh. New to v.c. 2 and Cornwall.

Hieracium umbellatum

SX45. Blackendown, near Kingsand, SX435507. 23rd October 2005. BCG. First record for SX45 since before 1930.

Holcus mollis

SW76. West Pentire, SW7760. 26th June 2006. IJB. First record for SW76 since 1979.

Humulus lupulus

SW32. Trailing over *Prunus spinosa*, Nanquidno, SW36302915. 2008. GH. New to SW32.

Hyacinthoides ×massartiana

(*Hyacinthoides non-scripta* × *H. hispanica*) (NEO)

SX04. One plant on road verge near Lobb's Shop, SX023496. 16th May 2005. PH. New to SX04.

SX07. On road verge south of St Tudy, SX0675. 2nd May 2005. IJB. New to SX07.

SS21. Gooseham, SS2216. 17th May 2009. BCG. New to SS21 (v.c. 2).

Hydrangea macrophylla (NEO)

SX05. Casual in cliff-top thicket, Duporth, SX034510. 7th August 2003. PH. Last recorded in SX05 in 1982.

Hymenophyllum tunbrigense

SX25. Small patch on second rock outcrop in wood (from Looe direction), between two rocks beneath large Holly tree, Kilminorth Wood, SX242542. 19th April 2006. BCG. Last recorded at this location in 1985 by Dr. Francis Rose.

SX27. Large patches on rock face, north side of cascade on Shale's Brook, Botternel Wood, SX28407413. 25th June 2005. BCG. large patches on rock face, south bank or River Lynher, Treovis Wood, SX28707426. 25th June 2005. BCG. Not new for SX27, but the sites are off the main granite area where it usually grows.

Hymenophyllum wilsonii

SX17. St Bellarmin's Tor, SX131769. 1st June 2005. KP-M. New site for SX17 and several kilometres from nearest known site.

Hypericum hircinum (NEO)

SW52. Many plants, Rosudgeon, SW553297. 4th August 2007. AAB. New to SW52.

SX07. On wasteground beside stream, southeast of Littlewood, SX040741. 30th July 2007. IJB. New to SX07.

Hypericum pulchrum

SW98. Pentire Point, SW9380. 28 June 2009. BCG. Last recorded in SW98 in 1979.

Hypericum maculatum* ssp. *obtusiusculum

SX37. In hedge south west of Lower Millcombe, SX30867298. 18th June 2006. IJB. New to SX37.

Hypericum undulatum

SW87. In rush-pasture, west of St Ervan, SW88677056, SW88547067 and SW88417065. 8th August 2008. IJB. Last recorded in SW87 in 1921.

SX36. Coombe, SX367624. 23rd July 2005. KP-M. Second recent record for SX36.

SS11. In wet flushed area poached by cattle, Higher Sharpnose Point, SS19801457. 18th August 2004. PMG. New to SS11.

***Hypericum ×desetangsii* (*H. maculatum* × *H. perforatum*)**

SX47. Near Trecanna Nursery, Latchley, SX407733. 4th August 2006. DF, det. Dr N.K.B. Robson. New to SX47.

***Hypericum ×inodorum* (*H. androsaemum* × *H. hircinum*)** (NEO)

SW52. One plant in corner of Prussia Cove Lane and A394, Rosudgeon, SW557296. 6th August 2007. GH. New to SW52.

SW71. On waste ground, St Keverne Beacon, SW77361978. 30th July 2006. BCG det. IJB. New to SW71.

SX46. Calstock, SX436685. 17th October 2008. IJB & CR. New to SX46.

Hypericum undulatum* × *H. tetrapterum

SX36. Leigh Farm, on rushy edge of arable field, SX38766282. 28th August 2006. IJB. Det. Dr N.K.B. Robson. First record of this hybrid between the two species.

SX05. Luxulyan Valley, base of bank on south side of small aqueduct through field, beside stile, SX05805700. 22nd July 2007. IJB. Det. Dr N.K.B. Robson. Second record of this hybrid between the two species.

SW75. In field with both parents, southeast of Carnkief Pond, SW78775206. 15th September 2009. IJB. New to SW75.

***Ilex* × *altaclerensis* (*I. aquifolium* × *I. perado*) (NEO)**

SX25. Planted (and naturalised) on hedge with *Castanea sativa*, *Berberis* sp. and *Fagus sylvatica*, near Windsworth, SX28295463. 24th September 2005. BCG. First record for v.c. 2.

***Impatiens capensis* (NEO)**

SW96 and SX06. Naturalised along tributary of Ruthern River, Coddles, SW998653 and along Ruthern River, south of Cotton Wood bridge, SX014675. 2nd September 2004. Trevor Renals. New to SW96 and SX06.

***Impatiens glandulifera* (NEO)**

SW87. In tall-herb fen and reedbed, Porthcothan, SW860719. 28th July 2008. IJB. Last recorded in SW87 in 1955.

***Impatiens parviflora* (NEO)**

SX05. Garden weed and established escape outside garden, about 20 plants, not knowingly introduced, Par, SX079541. 12th May 2007. PH. Last seen in Cornwall before 1909, new to v.c. 2.

***Inula helenium* (ARC)**

SX05. Casual, edge of car park, Porthpean, SX030507. 21 August 2009. PH conf. R.J. Murphy. New to SX05.

SX06. One plant opposite Lowertown Chapel, SX05296123. 22nd June 2008. DW. Last recorded in SX06 in 1873.

Iris foetidissima

SX26. Naturalised on edge of track, Pensilva, SX2969. 23rd August 2007. AA, MA, IJB, CR. New to SX26.

Jasione montana

SX46. Near Metherell, SX4169. 17th November 2008. CR. Last recorded in SX46 (v.c. 2) in 1979.

Juncus effusus* var. *spiralis

SW71. In track, Cow-y-Jack Moors, SW77551912. 30th July 2006. BCG det. IJB. New to SW71.

Juncus gerardii

SX19. In flush on cliff northeast of Rocky Valley. 24th July 2001. IJB & TJD. New to SX19.

SS20. In brackish marsh, Petherick's Mill Marsh, SS20940567. 11th September 2007. IJB. New to SS20 (though a record for 'northeast Cornwall' was made by W.M. Hind in 1873).

Juncus foliosus

SW32. Abundant in wet rush-pasture, bottom of field east of Carn Trevean, SW36532284. 1st September 2007. IJB. Last recorded in SW32 in 1956.

SW33. In spring area, Carn Vres Common, SW38913230. 9th January 2009. IJB & CR. New to SW33.

SX04. In rushy, poached area at bottom of field, north of Polstreath, SX01744553. 3rd June 2007. BCG. New to SX04.

SX19. In wet area in bottom of valley, east of Trevigue, SX140951. 10th May 2006. BCG. New to SX19.

SX26. East of Tremellick, SX242675. 3rd September 2008. IJB & CR. New to SX26.

Juncus maritimus

SW32. On wave-splashed rocks, west end of Pedn Vounder beach, Treen, SW393224. 2001. GH. New to SW32.

Juncus subnodulosus

SW71. Large patch in very wet fen vegetation, south of Tussler's Bridge, south of Erisey Barton SW710173 and SW710174. September 2009. Sue Hocking det. D. A. Pearman and conf. Dr T Cope. New to SW71 and first confirmed record

for Cornwall. A significant confirmation of this species for the Cornish flora.

***Juncus* × *diffusus* (*J. inflexus* × *J. effusus*)**

SS20. Edge of brackish pond, Petherick's Mill Marsh, SS208054, with both parents *Juncus effusus* and *J. inflexus*. 11th September 2007. IJB. New to SS20.

***Juncus* × *surrejanus* (*J. articulatus* × *J. acutiflorus*)**

SW71. In track, with parents, Cow-y-Jack Moors, SW77551912. 30th July 2006. BCG det. IJB. New to SW71.

***Kickxia elatine* (ARC)**

SX17. On disturbed earth of target of rifle range, Cardinham Moor, SX13427050. 25th July 2008. IJB & HMM. New to SX17.

***Kniphofia uvaria* (NEO)**

SX08. Two large plants established on hedge, Treknow, SX05388713. 17th September 2008. BCG. New to SX08.

Koeleria macrantha

SW83. A few plants on open part of cliff, northeast of Zone Point, SW85373137. 30th December 2009. BCG. Last recorded in SW83 in 1978.

SW93. Rosen Cliff, SW92133741. 29th May 2007. DAP & AVP. New to SW93.

***Lactuca serriola* (ARC)**

SW73. Road verge, Lanner, SW723399. 15th October 2007. IJB. New to SW73.

SX15. Waste ground, near Trezare Farm, SX109535. 4th September 2006. PH. New to SX15.

SX28. Road verge of the A30 dual carriageway north of Higher Trevell, SX261808. 28th September 2008. IJB. New to SX28.

***Lagarosiphon major* (NEO)**

SX86. Abundant in pond, Trevisker Farm, St Eval, SW87956908. 14th July 2006. IJB. New to SW86.

***Lamium album* (ARC)**

SW52. Near Rosudgeon, SW5529. 4th January 2004. Sylvia Gartside. First record for SW52 since 1965.

SX25. Near Landlooe, SX252599. 13th May 2005. KP-M. Second recent record for SX25.

***Lamium amplexicaule* (ARC)**

SW75. In arable field west of Droskyn Point, Perranporth, SW749541. 15th July 2007. DAP & AVP. Last recorded in SW75 before 1909.

***Lamium hybridum* (ARC)**

SW76. One plant beside garden wall, east Pentire, Newquay, SW797612. 7th April 2006. HMM. New to SW76.

SX26. Road verge, south of Cartuther Vean, SX2662. 14th August 2005. IJB. First record for SX26.

***Lamium maculatum* (NEO)**

SX05. One plant at base of Post Office wall, Charlestown, SX037519. 9th June 2003. PH. New to SX05.

SX28. Road verge, Newmills, SX29818512. 26th September 2008. IJB. New to SX28.

***Larix decidua* (NEO)**

SX04. Near London Apprentice, SX0049. May 2004. PH. Last recorded in SX04 in 1980.

SX05. Near London Apprentice, SX0050. near St Blazey, SX0655. Northeast of Lanlivery, SX0859. 2004. PH. Last recorded in SX05 in 1980.

***Larix kaempferi* (NEO)**

SW94. Planted on roadside, north of Penans, SW95024880. 23rd May 2005. IJB. New for SW94.

SS21. In woodland, Stowe and Lee Wood, Coombe Valley, SS2111. 12th June 2005. BCG. New for SS21.

SX26. Planted in Tappswell Plantation, SX230617. 13th August 2005. BCG. First record for SX26.

***Larix* × *marschlinsii* (*L. decidua* × *L. kaempferi*) (NEO)**

SX06. Many in Forestry Commission plantation, Lower Margate (Cardinham Woods), SX0966. 6th October 2004. MA, AA, IJB, CR. New to SX06.

SX27. In plantation, Upton Castle, SX2479. 5th August 2007. BCG. New to SX27.

Lathraea clandestina (NEO)

SX47. Lock Cottage, Gunnislake, SX436712. 6th May 2005. MA (first seen by Caroline Vulliamy). First for SX47F since 1980.

Lathyrus nissolia

SS20. On grassy embankment, Petherick's Mill Marsh, SS20990560. 11th September 2007. IJB. Last recorded in SS20 before 1980.

Laurus nobilis (NEO)

SW95. One bush on edge of waste ground on heath west of Watch Hill, SW970547. 22nd August 2007. BCG. New to SW95.

Lemna minor

SX19. In small pond beside road, Trevigue, SX13609522. 10th May 2006. BCG. Last recorded in SX19 in 1957

Lemna trisulca

SX36. Callington, SX358698. 9th January 2006. MW. New to SX36.

Leontodon saxatilis

SW95. In lawn of Nanpean Cemetery, SW964559. 22nd August 2007. BCG. New to SW95.

SX03. Dodman Point, SX009. 19th June 2009. IJB & DAP. New to SX03.

Lepidium sativum (ALIEN CASUAL)

SW73. Pavement weed outside pub, Devoran, SW796390. 19th June 2005. DAP & AVP. First for SW73 since before 1909.

Lepidium squamatum [*Coronopus squamatus*] (ARC)

SX26. road verge, Island Shop, SX2663. 14th August 2005. IJB. First record for SX26 since 1974.

Leucanthemum* × *superbum (?*L. lacustre* × *L. maximum*) (NEO)

SX04. Polstreath, SX0145. 3rd June 2007. BCG. New to SX04.

Leucojum aestivum* ssp. *pulchellum (NEO)

SX05. Road verge, Par, SX074544. 7th February 2003. Waste ground, St Blazey, SX076556, 17th March 2003. Casual, edge of playing field, Charlestown, SX036518, 24th March 2003. All PH. All new to SX05.

Leycesteria formosa (NEO)

SW42. Apparently self-sown and well established half way up roadside wall, east side of Laregan Hill, Penzance, SW465294. 2004. GH. New to SW42.

SW54. St Ives, SW5140. 3rd July 2004. BCG. New to SW54.

SS21. Beside forest track, Lee Wood, SS21621167. 13th September 2009. BCG/BSBI. New to SS21 (v.c. 2).

Libertia formosa (NEO)

SX35. One clump came up by small reedbed where stream entered beach but didn't reappear after storms, Downderry, SX315538. 2003. SCM. New to SX35.

Ligustrum ovalifolium (NEO)

SW82. Porthoustock, SW8021. 1st July 2006. IJB, RJM & DAP. New to SW82.

Linaria purpurea (NEO)

SX07. West of St Mabyn, SX034731. 30th July 2007. IJB. New to SX07.

SX28. Road verge, Newmills, SX29818512. 26th September 2008. IJB. New to SX28.

Linaria* × *sepium (*L. vulgaris* × *L. repens*)

SX38. Abundant on hedge, east of South Petherwin, SX31558183. 2nd October 2005. IJB. New to SX38.

Linum catharticum

SW83. In field south of Turnaware Point, SW837379. 17th May 2008. DAP & AVP. Last recorded in SW83 in 1956.

SX03. Dodman Point, SX00353976. 19th June 2009. IJB & DAP. New to SX03.

Lobelia erinus (NEO)

SX15. Casual on pavement, Fowey, SX127519. 4th August 2003. PH. New to SX15.

SX25. Churchyard Pelynt, SX20305503. 14th August 2006. CNF. New to SX25.

Lolium multiflorum (NEO)

SX27. Road verge near Trewinnow Cross, SX2979. 12th May 2005. IJB. New to SX27.

Lolium* × *boucheanum (*L. perenne* × *L. multiflorum*)

SX05. Roadside, Par, SX077537. 27th June 2008. PH. New to SX05.

SX37. In field margin, north of Browda, SXS30897185. 17th June 2006. BCG. New to SX37.

Lonicera japonica (NEO)

SX06. Road verge, Higher Rosewarrick, south of, SX021634. 28th July 2007. IJB. New to SX06.

SX25. Road hedge, Pelynt, SX20325559. 24th August 2006. CNF. New to SX25.

SX35. Portwrinkle, SX35835388. 12th October 2006. CNF. New to SX35.

Lonicera pileata (NEO)

SX47. Higher Dimson, SX42517134. 24th October 2008. IJB & CR. New to SX47.

Lonicera xylosteum (NEO)

SX05. Naturalised in Ivy/Whitebeam thicket, road verge, Par, SX075536. 16th May 2008. PH. Last recorded in SX05 in 1923.

SX06. Naturalised in scrub, Bodmin Beacon, SX06926655. 29th June 2007. IJB. New to SX06.

Lotus corniculatus var. sativus (ALIEN)

SW83. On base of wall, Tregassick, SW869347. 10th September 2008. DAP & AVP. New to SW83.

Lotus tenuis [*Lotus glaber*]

SX45. Two large patches in seasonally wet area on floor of Southdown Quarry, near Millbrook, SX43505287. 23rd July 2005. BCG. Now the only site for this species in Cornwall.

Luma apiculata (NEO)

SX04. Two bushes beside road, Trenarren, SX03374862. 2nd August 2009. BCG. New to SX04.

Luzula forsteri

SW84. Locally frequent in open areas near Tolverne Inn, SW84444012. 10th May 2005. DAP & AVP. First for SW84 since 1959.

SX05. One plant on shaded hedgebank beside Carruggatt Wood, SX089569. 27th June 2005. PH. New to SX05.

Luzula multiflora ssp. congesta

SW94. On roadside verge, northeast of Penans, SW95464914. 23rd May 2005. IJB (in cult.). New for SW94.

Lysichiton americanus (NEO)

SX07. One plant beside River Allen, northeast of Sladesbridge, SX013718. 30th July 2009. IJB. New to SX07.

Lysimachia nummularia (INT)

SX08. Lanteglos Churchyard, SX087823. 19th June 2007. IJB. Last recorded in SX08 in 1920.

Lysimachia vulgaris

SW61. Beside stream, Kynance Cove, SW686133. 10th August 2008. IJB. Last recorded in SW61 in 1978.

SX06. In wet woodland Dunmere Wood, SX04936809. 28th June 2006. IJB on Cornwall Invertebrate Group meeting. Last recorded in SX06 in 1972.

Lythrum salicaria

SW98. Coastal flush, south east of Pentire Point, SW93008004. 31 July 2009. IJB, CNF, DAP, AVP and MB. New to SW98.

SX36. beside River Tiddy, north of Lambest, SX3163. 25th September 2005. IJB. First record for SX36.

Macleaya ×kewensis (M. cordata × M. microcarpa) (NEO)

SW97. On pavement beside doctor's surgery, Wadebridge, SW990721. 16th May 2007. IJB. New to Cornwall.

Malus sylvestris

SW87. On hedge west of St Ervan, SW88337030. 8th August 2008. IJB. New to SW87.

SX05. Tywardreath, roadside hedgebank, SX081541. 27th September 2009. PH. Last recorded for SX05 before 1909.

Melica uniflora

SS21. Youldon Wood, SS2217. 17th May 2009. BCG. Last recorded in SS21 (v.c. 2) in 1983.

Melilotus albus (NEO)

SX26. Clump along Liskeard bypass, SX245640. 30th July 2004. SCM. New to SX26.

Melissa officinalis (NEO)

SW54. Burthallan Cliff, SW5041. 3rd July 2004. BCG. Last recorded in SW54 before 1980.

SX07. Roadside south of Trevarner, SX00267426. 22nd October 2008. IJB. Last recorded in SX07 in 1915.

SX25. In roadside hedge at entrance to Struddicks, SX292547. 24th September 2005. BCG. First record for SX25 since 1916.

SS21. One plant growing in flowerbed in front of cottage, Kilkhampton, SS25341140. 21st August 2004. PMG. Last recorded in SS21 in 1873.

Mentha pulegium

SW86. Abundant on disturbed open acid grassland, Coswarth Reservoir, SW859600. 14th November 2008. MD. New to SW86. Probably introduced.

SX05. One clump in old track in quarry, Luxulyan Quarry, SX055591. 25th October 2007. DAP. also seen again 22nd December 2007. DAP & AJB. Last recorded in SX05 in 1850. Probably introduced.

SX26. One plant in middle of gravel track, Lower Middle Hill, south of Pensilva, SX289691. 23rd August 2007. AA, MA, IJB, CR. New to SX26 (most probably a garden escape).

Mentha requienii (NEO)

SW54. Barnoon Cemetery, St Ives, SW51574069. 3rd July 2004. BCG. New to SW54.

SX47. Naturalised on gravel, Trecanna Nursery, Latchley, SX407733. 4th August 2006. DF. New to SX47.

Mentha spicata (ARC)

SX38. Abundant along base of hedge, north east of Trebursye Oak, SX309843. 16th August 2007. IJB. New to v.c. 2 part of SX38.

Mentha suaveolens

SX04. Coastal habitat at Pentewan, SX0247. 28th July 2005. DN. First record for SX04 and Pentewan since before 1909.

Mentha x piperita (*M. aquatica* × *M. spicata*)

SX37. Broomhill, Lezant. 29th May 2006. MA. Alos frequent along stream east of

Browda, SX30967173. 17th June 2006. BCG det. IJB (in cult.) New to SX37.

Mentha x smithiana (*M. arvensis* × *M. aquatica* × *M. spicata*) (NEO)

SX35. Along stream, Tregantle Cliff, SX38895297. 14th August 2009. IJB. New to SX35.

Mentha x suavis (*Mentha aquatica* × *M. suaveolens*)

SX09. Abundant on edge of path by river, Boscastle, SX10209124. 12th September 2009. IJB Det. Dr Ray Harley. Specimen at KEW. New to SX19 and v.c. 2. Last recorded in Cornwall in 1967 (SW73 tetrad D).

Mentha x villosa (*M. spicata* × *M. suaveolens*) (NEO)

SX35. Naturalised, Downderry, SX3154. 25th September 2008. IJB. New to SX35.

Mentha x verticillata (*M. aquatica* × *M. arvensis*)

SX46. In rough field, south of east Town Farm, Carkeel, SX4060. 26th August 2008. IJB & CR. Last recorded in v.c. 2 part of SX46 in 1876.

Mentha x villosonervata (*M. spicata* × *M. longifolia*) (NEO)

SW84. Beside lane west of Little Laniley Farm, SW83754805. 17th July 2004. IJB. New to SW84.

Menyanthes trifoliata

SW32. On edge of pond, east of Carn Trevean, SW36382286. 1st September 2007. IJB. Last recorded in SW32 in 1980.

SX08. Introduced to pond Bowood Park Golf Course near Camelford, SX093824 (established with over 100 plants). 21st April 2003. JH. New to SX08 (introduction).

SX39. In marshy area in floodplain of River Tamar, Tamerton Town Farm, North Tamerton, SX32109656. 1st July 2006. BCG. New to v.c. 2 part of SX39.

Mespilus germanica (ARC)

SX26. One tree, Bolitha Farm, Liskeard, SX2563. One tree, Pool Hall Farm, Menheniot. 2007. Ray Roberts fidé R.W.Gould & S.C. Madge. Last recorded in Menheniot and SX26 in 1902.

SX45. Plentiful in hedge, Churchtown Farm, SX41845737. 18th August 2004. DF. Also seen in same place with bushes with lots of flowers. 30th April 2005. IJB. First record for SX45 since 1880. This location is a re-discovery of one of the other older ones that were made for the area between Wivelscombe and Wearde Quay before 1880 by T.R. Archer-Briggs.

***Mimulus ×robertsii* (*M. guttatus* × *M. luteus*) (NEO)**

SW42. In stream by pool above boating pool, Wherry Town, Penzance, SW467297. 2004. GH. New to SW42.

SX05. Four plants in pavement, Tywardreath, SX086545. 12th May 2005. PH. New to SX05.

***Misopates orontium* (ARC)**

SX04. One plant in flowerbed, Pentewan, SX01974728. 2nd August 2009. BCG. New to SX04.

Molinia caerulea

SW83. In mown areas in wet woodland and also moribund tussocks in wet scrubby woodland, south of Pilleigh (Pilleigh Moor), SW8638 and SW8738. 7th October 2006. BCG. First record for SW83 since 1965.

Molinia caerulea* ssp. *arundinacea

SX26. Abundant in low-lying damp field, north east of Attwood Farm, SX289688. 23rd August 2007. AA, MA, IJB, CR, det. A. Atkinson. New to SX26.

Montia fontana* ssp. *chondrosperma

SW86. On open areas of cut grassland and rough area, east dispersal, St Mawgan Airbase, SW8864. 13th June 2005. IJB, HMM & DT, conf. RJM. First record for this ssp. for SW86 since before 1909.

***Muscari armeniacum* (NEO)**

SX15. Naturalised on bank by the A390, Lostwithiel, SX111598. 4th April 2005. PH. New to SX15.

SX26. In lay-by, Lower Clicker, SX28316126. 13th May 2006. CNF. New to SX26.

Myosotis laxa* ssp. *caespitosa

SX36. In rush-pasture beside stream, between Popham and Leigh Farm,

SX38226262. 28th August 2006. IJB. New to SX36.

SX46. In reedbed, Cotehele Bridge, SX4267. 29th May 2009. IJB & CR. Last recorded in Cornwall part of SX46 before 1880 (at Landulph).

Myosotis scorpioides

SX25. Near Landlooe, SX252599. 13th May 2005. KP-M. First record for SX25 since 1974.

SW98. Port Quin, SW971805. 20th September 2005. KP-M. First record for SW98 since 1908.

***Myosotis sylvatica* (INT)**

SX16. On waste ground, north west of Bodmin Lodge, SX12256161. 30th May 2006. IJB. New to SX16.

SX19. Casual near Dizzard Farm, SX1698. 23rd May 2008. BCG. New to SX19.

***Myosoton aquaticum* (INT)**

SX35. As a weed in small flowerbed beside beach cafe, Seaton, SX30345440. 24th September 2005. BCG conf. Paul R. Green. On riverbank beside River Tiddy, south of Tideford, SX35625972. 27th August 2009. IJB, CNF & HT. First and second records for SX35.

SS20. Casual, one plant growing on pile of tipped earth, Bude, SS21140649. 16th August 2004. PMG. New to SS20.

Myrica gale

SX05. In bog along stream covering 2 to 3 metres southwest of Higher Menadew, SX02685967. 3rd May 2009. DF. Last recorded in SX05 before 1909.

Myriophyllum alterniflorum

SW84. Near Cowland's, SW826408. 25th July 2005. KP-M. First record for SW84.

***Myriophyllum aquaticum* (NEO)**

SW32. In pond, Crean Mill, SW392246. 11th November 2003 (first seen in 1999). PC. First for SW32.

SW74. Halbullock Moor, SW795444. 2nd August 2004 (first seen in 1999). Ian French. Springfield Farm, Allet, SW791488. 20th August 2004. J.M.Cook. First and second records for SW74.

SW86. Trevisker, SW879691. 16th November 2003. J.D. Shapland. First record for SW86.

SW94. In lake, Trewithen, SW913476. 31st July 2004. CNF. In pond between Penans and Nantellan, SW94974903. 23rd May 2005. IJB. First and second records for SW94.

SX04. Heligan Gardens, SX003462. 1st October 2004. Malcolm Goodwin. First record for SX04.

SX15. Lerryn, SX140569. 27th May 2004 (first seen in 1997). R. Saunders-Davies. New to SX15.

SX17. Waterloo, Blisland, SX108729. 26th October 2003. J.P. Arlington. New to SX17.

SX45. Millbrook, SX423524. 15th September 2006. K. Blow. New to SX45.

Myrtus communis (ALIEN)

SW72. Established near Crousa Common, SW772210. 7th June 2006. DAP & AVP. New to SW72.

Narcissus tazetta (NEO)

SX05. Casual on cliff-top, Polmear, SX087537. 5th February 2005. PH. New to SX05.

Narcissus ×medioluteus (*N. tazetta* × *N. poeticus*) (NEO)

SX04. One plant on roadside hedgebank east of Lobb's Shop, SX026495. 16th May 2005. PH. New to SX04.

SX05. Casual in hedgebank, Hambland, SX096511. 24th April 2004. PH. Last recorded in SX05 in 1850.

Nardus stricta

SW32. In main track, Chapel Carn Brea, SW38622810. 10th December 2008. IJB. New to SW32.

SW74. In gateway on top of Carn Marth, SW71414082. 6th June 2009. IJB. Last recorded here (and in SW74) before 1909.

Neottia ovata [*Listera ovata*]

SX39. About 15 plants in woodland, Tamerton Town Farm, North Tamerton, SX32489580. 1st July 2006. BCG. New to v.c. 2 part of SX39.

Nicotiana ×sanderæ (*N. alata* × *N. forgetiana*) (NEO)

SX05. Casual roadside, Tywardreath, SX083544. 2nd June 2004. PH. First record for SX05 and v.c. 2.

Nigella damascena (NEO)

SW53. Near Truthwall, SW5332. August 2004. GB. First record for SW53.

SS21. Gooseham, SS228163. 17th May 2009. BCG. New to SS21.

Nymphaea alba (INT)

SW71. Established in old borrow pit, west of St Keverne Beacon, SW77171985. 6th July 2006. IJB. New to SW71.

SX16. In pond near Bodmin Parkway Station, SX107641. 10th October 2008. MU. New to SX16.

Nymphoides peltata (INT)

SX28. In ditch pond northwest of Truscott, SX29968590. 26th September 2008. IJB. New to SX28. The pond also has *Myosotis scorpioides*, *Typha latifolia*, *Myriophyllum aquaticum*, *Azolla filiculoides* and *Pontederia cordata*, all introduced.

Odontites vernus* ssp. *serotinus

SW43. On track, south of Porthmeor, SW433368. 15th March 2009. IJB & CR. Last recorded in SW43 before 1980.

Olearia macrodonta (NEO)

SW54. On west side of St Ives island, SW5141. 2003. CEW det. G. Halliday. New to SW54.

SX38. Several large bushes on side of old route of A30, west of Trebursye Oak, SX305840. 16th August 2007. IJB. New to SX38.

Olearia solandri (NEO)

SS20. Roadside near tidal inlet, with seedlings on wall and pathside, Bude, SS2006. 27th August 2005. GDK. New to East Cornwall.

SX35. Self-sown on steps to beach by pub (Inn on the Shore) Donderry, SX315539, with ancient large bush. 2007. SCM. New to SX35.

Olearia ×haastii (*O. avicenniifolia* × *O. moschata*) (NEO)

SX35. One bush beside private path, Finnygook Road, Portwrinkle, SX359538.

1st October 2008. IJB & CR. New to SX35.

Onobrychis viciifolia (INT)

SX19. Naturalised beside river, Boscastle, SX10209124. 12th September 2009. IJB & MJS. New to Cornwall.

Ononis repens

SX03. Dodman Point, SX00443925. 19th June 2009. IJB & DAP. New to SX03.

Ophioglossum vulgatum

SW32. Thirteen plants in open area in grassland, within heath, Roskestal West Cliff, SW36632216. 11th August 2007. IJB, AVP, DAP. Second recent record for SW32. These were very small plants which were thought to be *O. azoricum* but on checking the population on 21 June 2010 (Eleven plants counted by IJB, LO & HO) plants proved to be very stunted *O. vulgatum*.

SX07. Abundant amongst sparse bracken, Pendrift Downs, SX09907455. 25th May 2006. TJD. First record for SX07.

SX16. In heathy ground, Bunny's Hill, west of Cardinham road, SX118676. 7th May 2009. TJD, also found again here on 11th May 2009. New to SX16.

Ophrys apifera

SW71. One flowering spike on grass drive, Mount Carlees Farm, Ruan Major, seen each year in June 2000, 2001 and 2002. Vaughn Moon. New to SW71.

SX05. Twelve flowering spikes, in rushy ground behind sand dunes, Par Beach, SX078533. 14th June 2007. RL. Checked on 15th June 2007 by PH and only 8 flowering spikes were counted. New to SX05.

SX46. Single spike at the China Fleet Club (Skinham Farm), SX4260. 27th June 2004. finder wishes to remain anonymous. New to SX46.

Orchis mascula

SW75. Five plants on Cornish hedge, between Trebellan and Mount, SW78655672. 2nd May 2009. IJB. Last recorded in SW75 in 1956.

Oreopteris limbosperma

SW73. Two plants beside path and stream, southwest of Trevone, SW74683203. 22nd July 2009. BCG. Last recorded for SW73 before 1980.

Ornithogalum umbellatum ssp.

campestre [*Ornithogalum angustifolium*] (NEO)

SW32. Four plants in clearing in woodland, upper Penberth valley, SW392235. 2003. GH. New to SW32.

SX19. Three plants naturalised on top of Bynorth Cliff, SX16979907. 23rd May 2008. BCG. New to SX19.

Ornithopus perpusillus

SW82. On rocky outcrop, Nare Head, SW8024. 28th December 2008. BCG. Last recorded in SW82 before 1983.

Orobanche hederæ

SW54. One plant on Ivy, north of Gwithian, SW58654148. 14th June 2009. IJB & RJM. Last recorded in SW54 in 1879.

SX04. One plant beside coast path near Little Gribbin, SX093499. 13th June 2005. PH. New to SX04.

Orobanche hederæ forma monochroma

SW53. Three spikes in Lelant Cemetery, SW549377. 10th June 2006. AAB det. Dr M.J.Y. Foley. This form of *Orobanche hederæ* is new to Cornwall.

Orobanche minor ssp. maritima

[*Orobanche minor* var. *maritima*]

SX04. On cliff, Pen-a-maen, south of Gorran Haven, SX01734125. 19th June 2009. IJB & DAP. Last recorded in SX04, including 'St Gorran Haven' before 1909.

Orobanche minor ssp. minor

[*Orobanche minor* var. *minor*]

SX06. on road verge on recently strengthened streambank, northwest of Berry Lane, near Nanstallon, SX03266706. 10th June 2005. IJB. First record for var. *minor* for SX06.

SX44. Three small reddish plants on clover, Penlee Battery, SX438490. 26th May 2005. SCM & PM. New to SX44 (var. *minor*).

SW84. Along path beside estuarine river, north of St Clement, SW853440. 2005. MJS & KLS. First record for SW84 since 1980.

Osmunda regalis

SW87. In wet wood, west of St Ervan, SW886705. 8th August 2008. IJB. New to SW87.

SX35. In wet wood, Lydcott Wood, SX30025852. 30th August 2008. IJB. New to SX35.

Oxalis latifolia (NEO)

SX05. Casual at foot of wall, Par, SX078543. 19th August 2006. PH. New to SX05.

Oxalis rosea (NEO)

SW54. Burthallan Lane, SW50814060. 3rd July 2004. BCG. New to SW54.

Pancratium maritimum

(NATIVE OR ALIEN)

SW53. Flowering on fore-dune, Marazion Green, SW5131. 6th September 2006. Mr P. Knight. Also seen in October 2007 by CNF, IJB and MJS, and in August 2008, when J.P. Martin found that there are at least 4 plants, one with open flowers. New to SW53, v.c. 1 and Cornwall

This species is familiar to people holidaying in the Mediterranean where the species is common on sandy beaches. It is also found as a native up the western seaboard of France as far as southern Brittany, France and without anyone owning up to planting the species here, there is a strong possibility that the occurrence at Marazion could be from seeds from native plants washed up from across the channel in Brittany. It is interesting to note that *Polygonum maritimum*, another species of the Mediterranean and western seaboard with its northern limit in southern England, was found growing close by on the driftline and on the revetment at Marazion, in 2003 by MJS, and that Marazion Green was one of the last localities of another of these species, *Euphorbia peplis*, now extinct in the British Isles, which was recorded here in 1915 by E. Lees, between Penzance and Marazion in 1934. It is quite likely that this part of Mount's Bay at Marazion is a

natural dumping ground of the seeds of these species, seeds which are able to colonise new places by dispersal via the sea.

Panicum miliaceum (ALIEN CASUAL)

SX25. Two plants on beach, Wallace Quay, Hannafore, Looe, SX252523. 2006. SCM. One plant seen in same place September 2007. SCM. Last recorded in SX25 (from Looe Dust Heaps) in 1918.

Papaver atlanticum (NEO)

SW43. On low hedge, Trevega, SW48153971. 4th July 2007. IJB. New to SW43 and v.c. 1.

Papaver dubium (ARC)

SW87. Many in rough, bare area, between Harlyn and Constantine Bay, SW869750. DAP & AVP. Last recorded in SW87 in 1954.

Papaver hybridum (ARC)

SW54. Marazion Marsh, SW5131. 15th August 2009. BCG. First for SW54 since 1935.

Papaver lecoqii [*Papaver dubium* ssp. *lecoqii*] (ARC)

SW54. Between Higher Stennack and B3306, SW51144007 and Barnoon Cemetery, St Ives, SW51564063. 3rd July 2004. BCG. New to SW54.

Papaver rhoeas (ARC)

SX06. A few plants in reseeded rye-grass ley, just off Copshorn Road, north of Bodmin, SX06426830, with *Anthemis cotula* and *Centaurea cyanus*). 2nd June 2007. IJB. Probably a seed contaminant. Last seen in SX06 before 1875.

SX17. On disturbed earth of target of rifle range, Cardinham Moor, SX13427050. 25th July 2008. IJB & HMM. Last recorded in SX17 in 1962.

SX19. Crackington Haven, SX1496. 25th July 2007. BCG. Last seen in SX19 in 1961.

SX28. Road verge of the A30 dual carriageway north of Higher Trevell, SX261808. 28th September 2008. IJB. New to SX28.

Papaver somniferum (ARC)

SW87. In waste ground, Porthcothan, SW859719. 28th July 2008. IJB. Last recorded in SW87 in 1918.

SX17. On disturbed earth of target of rifle range, Cardinham Moor, SX13427050. 25th July 2008. IJB & HMM. New to SX17.

Parapholis strigosa

SW76. Saltmarsh, The Gannel, Newquay, SW79536118. 20th July 2006. HMM. Last recorded in SW76 in 1979.

SW87. In sandy track, Booby's Bay, SW85737576. 8th July 2006. HMM. New to SW87.

Parthenocissus quinquefolia (NEO)

SW85. Naturalised beside path, East Wheal Rose, SW835551. 12th August 2007. IJB. New to SW85.

SX05. Naturalised on waste ground, Par, SX077539. 11th September 2007. PH det. John Poland. New to SX05 and East Cornwall.

Parthenocissus vitacea [*Parthenocissus inserta*] (NEO)

SX05. Naturalised on waste ground, Par, SX077536. 29th September 2007. PH. New to SX05.

Pastinaca sativa* var. *sativa

SW84. Road verge, Tresillian, SW873468. 9th August 2006. IJB. New to SW84.

Persicaria amphibia

SW43. Terrestrial form growing on low hedge dividing industrial units, and growing through concrete, Chyandour, Penzance, SW48173126. 28th May 2005. IJB, PRG, MJS. First record for SW43 since 1879.

This form of *Persicaria amphibia* was last recorded at 'Gulval Marsh' (SW43) and 'Marazion Marsh' (SW53) by J. Ralfs in 1879, and *Persicaria amphibia* last recorded in Marazion Marsh (SW53) by J. Beckerlegge in 1949. Due to much development in this area of Penzance, obliterating almost all of the historic botanical sites where many rare and unusual species had been recorded in the past, it is heartening that some are still

hanging on but the future of these plants is very precarious.

SW72. Dominant over 50 m of streambank Porthallow, SW79702317. 26th June 2006. DAP & AVP. Last recorded in SW72 in 1983.

Persicaria bistorta

SX07. Large patch beside road, south of Helsbury Farm, SX087794. 17th May 2009. MJS & IJB. New to SX07.

SX39. In old orchard, Tamerton Town Farm, North Tamerton, SX31599656. 1st July 2006. BCG. First record for SX39 since before 1970 and new to v.c. 2 part of SX39.

SS21. Large patch in wet meadow, Coombe Valley, SS21261165. 12th June 2005. BCG. First record for SS21 since 1980 and last recorded in Coombe Valley in 1925.

Persicaria capitata (ALIEN CASUAL)

SW43. Several plant by wall, steps on lower Abbey Street, Penzance, SW475302. 9th August 2007. GH. New to SW43.

Petasites fragrans (NEO)

SX17. Lower Carblake, SX1170. 28th July 2004. IJB. New to SX17.

Petrorhagia saxifraga (NEO)

SW42. North side of Creeping Lane, west corner of junction with Lidden Drive, SW462293. 2002. GH. New to Cornwall.

Petroselinum crispum (ARC)

SX05. Casual, at foot of wall, Par, SX076538. 4th July 2006. PH. New to SX05.

***Petunia* × *hybrida* (*P. axillaris* × *P. integrifolia*)** (NEO)

SX05. About 30 plants on waste ground, Par, SX078537. 11th September 2005. PH. New to SX05.

SX35. Casual on pavement, Portwrinkle, SX3553. 2nd October 2008. IJB. New to SX35.

Phacelia tanacetifolia (NEO)

SW75. Beside path, casual, north of Penhale Camp, SW76255905. 27th June 2006. Cathy Turtle det. IJB. New to SW75.

SX16. Set-aside arable field near West Taphouse, SX155639. 24th June 2005. MA. First record for SX16.

Phalaris arundinacea* var. *picta (ALIEN)
SW85. Naturalised beside small pool on ditch, west of Lanteague Farm, SW80145370. 9th September 2004. NFS. New for SW85.

Phegopteris connectilis
SX17. At least 10 small fronds with three or four dead fronds on about 6 small plants - or perhaps one large plant - which is spread along a horizontal crevice of a vertical southeast facing rock outcrop at about 412 metres, just below and southeast of the highest point of Brown Willy, SX15907994. No fronds were springing. 15th August 2010. BCG. Last recorded for Cornwall (on Brown Willy and on nearby Rough Tor, SX18) about 1930 by Major E. W. M. Magor. First found on Brown Willy by the Cornish Moneywort Club before 1909.

Philadelphus coronarius (NEO)
SX06. Lowertown, SX053611. 27th July 2008. IJB. New to SX06.

Phormium tenax (NEO)
SW45. Porthminster Beach area, SW45F. 2005. BB. First for SW45.

Pilosella aurantiaca* ssp. *carpathicola (NEO)
SX07. Road verge, near Trevarner, SX0072. 22nd October 2008. IJB. Last recorded in SX07 before 1980.

Pimpinella major
SW42. One plant on north side of B3283, between Canopus and St Buryan, SW41702657. 2004. GH. New to SW42 and first record for v.c. 1 since 1869.

SX05. Two plants near Pont's Mill, SX073556. 21st July 2005. KP-M. First record for SX05.

SX28. Twelve plants at road junction, Kittow's Moor, SX2087. 10th July 2008. MA & AA. New to SX28.

Pimpinella saxifraga
SW54. Godrevy Point, SW5943. 2nd June 2004. BCG. Last recorded for SW54 in 1972.

Pinus contorta* ssp. *latifolia (ALIEN)
SX07. planted beside road near Bravery Cottages, SX06637455. 2nd May 2005. IJB. New to SX07.

Pinus radiata (NEO)
SX37. Browda, SX3072. 17th June 2006. BCG. New to SX37.

Pittosporum tenuifolium (NEO)
SW32. In woodland, upper Penberth valley, SW393233. 2003. GH. LANC. New to SW32.

Plantago major* ssp. *intermedia
SW73. Many plants in open areas in weedy arable field used for Narcissus bulbs, Halabezack Farm, SW702346. 23rd September 2005. IJB & PAG. First record for SW73.

Plantago maritima
SX03. Dodman Point, SX0039. 19th June 2009. IJB & DAP. New to SX03.

Platanthera bifolia
SX05. Five flowering spikes amongst bracken at base of Treskilling Downs, SX034577. 21st June 2004. RL. First record for SX05 since 1980.

SX28. Two plants in narrow strip of herb-rich grassland along top edge of old railway cutting, north of Nether Scarsick, SX20318893. 26th June 2009. IJB, TJD, PAG, AVP and DAP. Last recorded in SX28 before 1980.

The *Platanthera bifolia* plants were found growing at one of the two remaining sites for *Vicia orobus* (of which there were about 200 plants from SX20148892 to SX20328893) in Cornwall and the narrow strip of rough grassland and scrub also have associates of the rough moor in which the adjacent railway cutting was put through before 1884. The associates include *Succisa pratensis*, *Molinia caerulea*, *Dechampsia cespitosa* ssp. *parviflora*, *Luzula multiflora*, *Teucrium scorodonia*, *Pimpinella saxifraga*, *Euphrasia officinalis* ssp. *anglica* [*Euphrasia anglica*], *Dactylorhiza maculata* ssp. *ericetorum* (1 plant), *Serratula tinctoria*, *Lathyrus linifolius* var. *montanus*, *Trifolium medium*, *Carex caryophylla*, *C. flacca*, *Galium saxatile* and *Potentilla erecta*, with frequent

Bracken and bramble, and the *Vicia orobus*.

Platanthera chlorantha

SX19. About 100 plants in herb-rich field being allowed to revert to traditional hay-meadow, immediately south of Lesnewth Church, SX130902. 13th June 2009. TJD. First record for SX19 since 1886.

Platanthera ×hybrida (P. chlorantha × P. bifolia)

SX47. St Ann's Chapel (Sylvia's Meadow), near Gunnislake, SX4170. 2003. R.A. Bateman and P. Rudall. (Bateman & Sexton 2008). Though the paper reports that the identification of this hybrid found at Sylvia's Meadow with both parents is 'less certain [than others sampled]' it is included here as it has not been ruled out that plants could be the hybrid, and further research may confirm its presence here.

***Pleioblastus pygmaeus* (NEO)**

SW94. Naturalised in Garlenick Wood, SW94404995. 23rd May 2005. IJB. New for v.c. 2 and Cornwall.

Poa compressa

SX05. St Blazey, on wall top, SX072544. 27th May 2009. PH. Last recorded in SX05 in 1928.

Poa humilis

SW43. On pavement edge, Chyandour, Penzance, SW481312. 28th May 2005. IJB, PRG, MJS. First record for SW43.

Almost certainly under-recorded in Cornwall. Good habitats to search for it are wall-tops, graveyards, coastal grassland and dunes, road verges and grassy hedgebanks.

Poa nemoralis

SX15. Shaded hedgewall, Golant, SX115549. 14th August 2003. PH. Last recorded in SX15 in 1980.

Poa trivialis

SX03. Dodman Point, SX0039. 19th June 2009. IJB & DAP. New to SX03.

Polycarpon tetraphyllum

SW43. Between paving, north side of Promenade opposite car-park, Penzance,

SW475303. 2009. GH. Last recorded in SW43 in 1869.

Polygala serpyllifolia

SX03. Dodman Point, SX0039. 19th June 2009. IJB & DAP. New to SX03.

Polygala vulgaris

SW82. Beside path, Nare Head, SW8024. 28th December 2008. BCG. New to SW82.

***Polygonatum ×hybridum (P. multiflorum × P. odoratum)* (NEO)**

SX05. Casual by coast path, near Landrion Point, SX047517. 9th May 2005. PH. New to SX05.

***Polygonum arenastrum* (ARC)**

SW54. St Ives, SW5040. 3rd July 2004. BCG. New to SW54.

Polygonum maritimum

SX15. Two plants at western end of Great Lantic Beach, SX148509. 24th October 2005. SP. Last seen on Lantic Beach in 1991. Thought lost since then it re-appeared after storms with strong easterly winds in Autumn 2004 shifted much sand and shingle on the beach. Further searches in subsequent years to 2010 have failed to find the plants, but it is likely to appear here again when suitable conditions arise.

***Polygonum rurivagum* (ARC)**

SW53. In old bulb-field, southwest of Angarrack, SW58023805. 11th August 2007. IJB. New to SW53.

SW84. In arable field, Eglosmerther, SW86134491. 9th August 2006. BCG det. IJB. New to SW84.

SX36. In arable field, east of Leigh Farm, SX38626282. 28th August 2006. IJB. New to SX36.

Polypodium cambricum

SX46. Epiphytic on tree three feet above ground Carkeel, SX412600. 14th March 2006. M. Stephens det. P.R. Green. Not new to SX46 but first report of *P. cambricum* as epiphyte in Cornwall (as has been noted in Hampshire).

***Polypodium ×font-queri* (*P. vulgare* × *P. cambricum*)**

SX15. On hedgebank, Castledore, SX104546. 14th January 2007. MJS det. R. Cooke. New to SX15, v.c. 2 and Cornwall.

***Polypodium ×mantoniae* (*P. vulgare* × *P. interjectum*)**

SX06. One patch with nearby *Polypodium interjectum* on wall by road, near Breney Common, SX054609. May 2005. CNP. First for SX06.

***Polypogon viridis* (NEO)**

SW75. Pavement crack, St Agnes, SW72005035. 23rd June 2006. IJB. New to SW75.

SW85. In rough ground near small church hall, St Newlyn east, SW82825632. 14th December 2007. IJB. New to SW85.

SW87. At base of telegraph pole no CO15, Trevone Road, Trevone, SW89467538. 20th October 2007. BL. New to SW87.

SX26. On pavement, Pensilva, SX289698. 23rd August 2007. AA, MA, IJB, CR. New to SX26.

Polystichum aculeatum

SX16. More than sixty plants on woodland bank and hedge, north of Milltown, near Cardinham, SX11626831. 3rd March 2007. KP-M. Also seen 22nd May 2007 by IJB who confirmed the identity. New to SX16.

***Polystichum ×bicknellii* (*P. setiferum* × *P. aculeatum*)**

SX16. One plant on woodland bank and hedge, north of Milltown, near Cardinham, SX11626831, with both parents. 22nd May 2007. IJB conf. RJM. New to SX16.

Populus tremula

SW42. Penberth, SW4022. 2008. GH. New to SW42.

***Populus trichocarpa* (NEO)**

SW94. On hedge beside stream between Penans and Nantellan, SW94844920. 23rd May 2005. IJB. First record for SW94.

Potamogeton berchtoldii

SW62. Gunwalloe Marsh, SW661207 & SW662208. 20th June 2005. IJB & DAP det. C.D. Preston. First for SW62 since 1980.

SX04. In pond, Bodrugan, SX01594339. 6th September 2008. BCG. New to SX04.

SX07. In new ponds built as part of Sladesbridge flood relief scheme, Clapper, SX003716. 24th August 2004. IJB. First record for SX07.

Potamogeton natans

SW73. In Palestine Quarry pool, SW74473214, with *Littorella uniflora*. 22nd July 2009. BCG. Last recorded in SW73 in 1982.

SW74. In quarry pool, Carn Marth, SW71634082. 6th June 2009. IJB. New to SW74.

SX04. In pond, Bodrugan, SX01594339. 6th September 2008. BCG. New to SX04.

SX07. In new ponds built as part of Sladesbridge flood relief scheme, Clapper, SX003716. 24th August 2004. IJB. First record for SX07.

SX18. One patch on edge of Crowdy Reservoir, SX14208330. 31st July 2005. BCG. First record for SX18.

SX26. In pond, northeast of North Treviddo, SX27686246. 14th August 2005. IJB. First record for SX26 since 1909.

SX38. In pond in valley, east of Grove Town, SX31188829. 27th August 2005. IJB. First record for SX38 since 1909.

Potamogeton pusillus

SW54. Marazion Marsh, SW51093124 to SW50863127, abundant throughout open water. 15th August 2009. BCG, Det. C. D. Preston. First for SW54 since 1935.

***Potentilla ×mixta* s.l. (*P. anglica* or *P. erecta* × *P. reptans*)**

SW43. Around South West Water pumping station, south of Ding Dong Mine, SW436342. 12th July 2008. DAP. New to SW43.

SW73. In field, north of Tresahor Vean, SW7430. 17th June 2009. IJB. Last recorded in SW73 in 1922.

SX04. In cliff-top sward, Gribbin Head, SX099499. 15th August 2005. PH. New to SX04.

SX26. Road verge, east of Trethinnick, SX2367. 23rd August 2008. BCG det. B. Hodgson and I J Bernallick. East of Tremellick, SX242675. 3rd September 2008. IJB & CR. Both new to SX26.

Poterium sanguisorba* ssp. *sanguisorba
[*Sanguisorba minor* ssp. *minor*]

SX19. Crackington Haven, on bank beside footpath to East Wood, SX1496. 25th July 2007. BCG. New to SX19.

Primula veris

SW85. On road verge next to heath, west of Carland Cross, SW841537. 17th May 2006. CNF. independently recorded on 19th May 2006 by IJB.

An inland record of this species which is presumably native for this site. It is either very rare or not found in the more acid soils of inland areas of Cornwall.

***Prunus cerasifera* (NEO)**

SW43. Several large shrubs along north side of Penzance A30 by-pass, SW470315. 28th March 2006. GH. Last recorded in SW43 before 1980.

***Prunus cerasus* (ARC)**

SX38. On hedge north of Brockleford, SX31448108. 2nd October 2005. IJB. New to SX38.

***Prunus domestica* agg. (ARC)**

SW54. Higher Pencobben, road south of, SW5942. 2nd June 2004. BCG. New for SW54.

SX08. On bank near road, Trebarwith Strand, SX0586. 17th September 2008. BCG. Last recorded in SX08 before 1888.

***Prunus laurocerasus* (NEO)**

SS21. Naturalised in hedge, west of Marsborough, SS23701452. 24th August 2008. IJB. New to SS21.

***Prunus lusitanica* (NEO)**

SX25. Bridleway, Morval Estate, SX26125662. 10th October 2006. CNF. New to SX25.

***Prunus persica* (NEO)**

SX05. Casual on fixed sand dunes, western end of Par Sands, SX079532. 12th May 2003. PH on BSBI meeting. New to SX05, v.c. 2 and Cornwall.

***Prunus serotina* (NEO)**

SX47. Two trees flowering well, most likely to have self sown, Hingston Down, SX408711. 15th June 2003. PRG. New to Cornwall.

***Prunus* ×*fruticans* (*P. spinosa* × *P. domestica*)**

SW84. One bush on side of disused railway, Penwethers Junction, SW81224434. 23rd April 2004. PRG. New to Cornwall.

***Pseudosasa japonica* (NEO)**

SX16. On hedge, north west of Bodmin Lodge, SX12256161. 30th May 2006. IJB. New to SX16.

SX26. Naturalised in rough part of St Cleer Downs, SX24676796. 3rd September 2008. IJB & CR. New to SX26.

Pteridium aquilinum* ssp. *fulvum

SW96. In the Tregonetha Downs and Castle-an-Dinas areas, frequent pure patches mixed with more numerous patches of *Pteridium aquilinum* ssp. *aquilinum*, within squares SW9463, SW9563, SW9663, SW9562 and SW9662. July 2001 and subsequent follow-up explorations. CNP. First record for Cornwall.

Acknowledging that “a worldwide study is essential before a useful classification can be adopted” for *Pteridium aquilinum*, Stace in Stace (2010) adopts a compromised solution in considering ssp. *fulvum* as an ‘ecotype’. Those who have been showed this plant by C N Page on Tregonetha Downs agree that it is very different to the familiar *Pteridium aquilinum* which is so ubiquitous in Cornwall.

***Pteris cretica* (NEO)**

SW83. Few plants outside garden wall opposite turning for Nursery Road, near Flushing, SW813337. 25th July 2005. CW. New to SW83.

SX46. In roadside wall, Calstock, SX433687. 17th October 2008. IJB & CR. New to SX46.

Puccinellia maritima

SS20. In small area of salt marsh in mouth of River Neet, Bude, SS20550637. 19th

July 2008. IJB & MJS. Last recorded in SS20 in 1873.

Puccinellia rupestris

SW84. 20 to 30 plants along path beside estuarine river, north of St Clement, SW853440. 19th June 2006. MJS. First record for SW84 since 1917.

***Pulmonaria officinalis* (NEO)**

SX37. Near Monkscross, SX3871. 2nd June 2009. CR. Last recorded in SX37 before 1909.

SX45. One clump beside gate into northeast end of Watch House Field, Penlee Battery, SX441492. 26th May 2005. SCM & PM. New to SX44.

***Pyracantha coccinea* (NEO)**

SX46. One plant established on low mortared wall adjacent to Cotehele Quay, SX423681. 22nd August 2007. MJS. New to Cornwall.

***Quercus ilex* (NEO)**

SX26. Planted in hedge, near Island Shop, SX2663. 14th August 2005. IJB. First record for SX26 since 1955.

SS21. Naturalised in hedge, west of Marsborough, SS2314. 24th August 2008. IJB. New to SS21.

***Quercus rubra* (NEO)**

SX06. Dunmere Wood, SX04386850. 28th June 2006. IJB. New to SX06.

***Quercus velutina* (ALIEN)**

SX06. in Forestry Commission plantation, Bishop's Wood, SX006700. 25th November 2004. IJB. New to Cornwall.

***Quercus ×rosacea* (*Q. petraea* × *Q. robur*)**

SX19. On hedge, west of Rosecare, SX16339625. 18th March 2009. IJB. Last recorded in SX19 in 1960.

SX26. St Cleer Downs, SX2467. 3rd September 2008. IJB & CR, det. IJB. New to SX26.

SX28. Hedge, Newmills, SX2985. 26th September 2008. IJB. New to SX28.

SX35. Donderry, SX3153. 25th September 2008. IJB. New to SX35.

Radiola linoides

SW73. Many plants on track, southeast of Palestine Quarry, SW74503210. 22nd July 2009. BCG. Last recorded in SW73 in 1966.

Ranunculus hederaceus

SX26. Killigorry, SX228615. 17th July 2008. KP-M. In wet flush in field, east of Tremellick, SX242675, 3rd September 2008. IJB & CR. Last recorded in SX26 in 1882

Ranunculus parviflorus

SX16. Set-aside arable field near West Taphouse, SX155639. 24th June 2005. MA. First record for SX16.

Ranunculus omiophyllus

SW86. In spring, Polgreen, SW8666. 4th February 2007. IJB. New to SW86.

Ranunculus penicillatus

SX25. near Landlooe, SX252599. 13th May 2005. KP-M. Second recent record for SX25.

Ranunculus sardous

SX16. Set-aside arable field near West Taphouse, SX155639. 24th June 2005. MA. First record for SX16.

Ranunculus sceleratus

SX04. Beside stream, Barton Farm, SX01634724. 3rd June 2007. BCG. Last recorded in SX04 before 1980.

SX26. On pavement, Liskeard, SX251646. 2009. AMcN. New to SX26.

Ranunculus tripartitus

SW72. In flooded trackway and ephemeral pool in gateway, north west of Trevassack Quarry, SW70652260, SW70692255, SW70712261, SW70752261, SW70772248, SW70812262, SW70822244. 19th April 2004. In puddle along path, south of Croft Pascoe, SW72972043. 12th January 2005. BRW & AJB. First records for SW72 since 1983.

***Raphanus raphanistrum* ssp.**

***raphanistrum* (ARC)**

SW73. Halabezack Farm, SW702345. 25th July 2005. KP-M. First record for SW73 since 1956.

SX25. Tarista in corner of rape field, SX21115163 & SX21085174. 5th July 2006. CNF. New to SX25.

Raphanus sativus (ALIEN CASUAL)
SX19. On dumped river gravel from 2004 flood, Boscastle, SX101912. 22nd October 2005. BCG. First for SX19.

Rapistrum rugosum (NEO)
SW74. In waste area beside road near postbox, with Brassica nigra, Allet, SW793485. 1st November 2007. IJB. Last recorded in SW74 before 1980, and in Cornwall 1984.

Reseda lutea (INT)
SW85. On road verge, Carland Cross, SW84695382. 24th May 2007. IJB. New to SW85.

Reseda luteola (ARC)
SX17. On disturbed earth of target of rifle range, Cardinham Moor, SX13427050. 25th July 2008. IJB & HMM. New to SX17.

SX28. Road verge of the A30 dual carriageway north of Higher Trevell, SX261808. 28th September 2008. IJB. New to SX28.

Rhus typhina (NEO)
SX28. Road verge, Newmills, SX29818512. 26th September 2008. IJB. New to SX28.

SX46. Beside railway bridge, Calstock, SX436687. 17th October 2008. IJB & CR. New to SX46.

Ribes nigrum (NEO)
SW83. In wet woodland, south of Philleigh, SW8638. 7th October 2006. BCG. First record for SW83 since 1975.

Ribes sanguineum (NEO)
SW54. Sand Cot, east of, SW59254230. 2nd June 2004. BCG. New to SW54.

Ribes uva-crispa (NEO)
SW54. Higher Pencobben, road south of, SW5942. 2nd June 2004. BCG. Last recorded for SW54 in 1957.

Rorippa islandica
SS20. One robust plant on kerbside, Ocean View Road, Bude, SS20760723. 26th July

2005. LP, still there 20th July 2008. New to SS20.

Rorippa palustris
SW53. Weed in cauliflower field, Godolphin, SW59773187. 22nd July 2006. IJB. Last seen in SW53 in 1879.

Unusually seen as a weed in an arable field, but some previous records from SW63 are for weeds also.

SX06. One plant at base of wall on pavement, Lanivet, SX03796419. 26th September 2008. IJB, conf. Dr T.C.G. Rich. New to SX06.

Rosa arvensis
SW54. On hedge, south of Higher Pencobben, SW5942. 2nd June 2004. BCG. New to SW54.

Rosa multiflora (NEO)
SW95. On A30 embankment, abundant in places, Indian Queens, SW933598. 26th June 2006. IJB. New to SW95.

SX37. Edge of Browda Wood, on newly built hedge end, SX30557199. 17th June 2006. BCG. New to SX37.

Rosa rugosa (NEO)
SX04. On waste ground, Castle Gotha Farm, SX028499. 25th July 2005. PH. New to SX04.

Rosa sherardii
SW32. One bush on north side of coastal path, just east of Logan Rock, SW398224. 2008. GH conf. R. Maskew – specimen in LANC. New to SW32.

SW84. Near Gare, SW8843. 4th October 2003. IJB. New to SW84.

SW93. In road hedge, northwest of Trewartha, SW92433982. 9th June 2009. IJB. Last recorded in SW93 in 1942.

Rosa tomentosa
SX25. in hedge west of Keval, SX296552. 24th September 2005. BCG, coll. P. Green, det. R. Maskew. First confirmed record for Cornwall.

Rosa ×hibernica (*R. spinosissima* [*R. pimpinellifolia*] × *R. canina*)
SX07. On hedge with both parents nearby, north of Lower Treworder, SX00957242.

22nd October 2008. IJB. New to SX07 and v.c. 2 and last recorded in Cornwall (in v.c. 1) in 1982.

Possibly more frequent than records show especially in atypical *Rosa spinosissima* sites well inland.

***Rosa* × *scabriuscula* (*R. tomentosa* (female) × *R. canina*)**

SX25. In hedge south of Penhale Farm, SX290548. 24th September 2005. BCG, coll. P. Green, det. R. Maskew. First confirmed record for Cornwall.

***Rosa* × *verticillacantha* (*R. arvensis* × *R. canina*)**

SX 38. In hedge, west of South Petherwin, SX30028188. 2nd October 2005. IJB. New to SX38.

Rubia peregrina

SW82. Along path southeast of Treglohan, SW801820. 6th July 2006. IJB. New to SW82.

Rubus adscitus

SX05. Road verge, Par, SX075536. 24th July 2003. PH det. A. Newton. New to SX05.

Rubus boreanus

SX05. Border of shrubbery, Par Sands, SX079534. 13th July 2003. PH conf. A. Newton. New to SX05.

Rubus botryeros

SX05. By coast path, Carlyon Bay, SX046517. 20th June 2005. PH. Carruggatt Wood, SX089569. 27th June 2005. PH. Strickstenton area, SX088576. 27th June 2005. PH. New to SX05.

Rubus britannicus

SX05. By track north of Starrick. 28th June 2004. PH. New to SX05.

Rubus caesius

SW54. Godrevy Point, SW5943. 2nd June 2004. BCG. Last recorded in SW54 before 1980.

Rubus cornubiensis

SX05. Roadside hedgebank west of Lobb's Shop, SX020495. 28th July 2005. PH. New to SX04.

SX15. Roadside hedgebank, near Polmena Farm, SX114591. 8th May 2005. PH. New to SX15.

Rubus daveyi

SW44. Treveal area, SW4740. 2004. GH. New to SW44.

Rubus dentatifolius

SX05. Fixed dunes, Par Sands, SX079533. 27th July 2003. PH conf. A. Newton. New to SX05 (this record predates the one for 2004 in Botanical Cornwall 14).

Rubus dumnoniensis

SX05. Derelict garden, Par, SX076536. 1st July 2006. PH. Par, SX079542. 4th July 2007. PH. det. A. Newton. New to SX05.

Rubus lamburnensis

SX04. Gribbin Head, SX099499. 15th August 2005. PH. New to SX04.

***Rubus loganbaccus* (NEO)**

SX15. Established on steep bank adjacent to car park, Fowey, SX124517. 2nd June 2003. PH. New to SX15.

Rubus questieri

SW43. Amongst gorse, Trengwainton Carn, Madron, SW441321. 2005. GH det. A. Newton. LANC. New to SW43.

Rubus rilstonei

SW44. Treveal area, SW4740. 2004. GH. New to SW44.

Rubus tuberculatus

SX05. Waste ground, Par, SX078536. 22nd June 2003. PH conf. A. Newton. New to SX05 (this record predates the one for 2004 in Botanical Cornwall 14).

Rubus ulmifolius

SW44. Treveal area, SW4740. 2004. GH. New to SW44.

***Rumex acetosa* ssp. *ambiguus* (NEO)**

SX26. Road verge beside A38 south of 'Factory', SX26876236. 14th August 2005. IJB. First record for SX26.

***Rumex* × *dufftii* (*R. sanguineus* × *R. obtusifolius*)**

SS20. One plant in coastal valley, Sandymouth, SS20320995. 31st August 2005. GDK. New to SS20 (v.c. 2 part).

SS21. One plant with parents, on roadside of coarse vegetation, west of Forda,

SS2711. 29th August 2005. GDK. New to SS21 (v.c. 2 part).

***Rumex* × *pratensis* (*R. crispus* × *R. obtusifolius*)**

SX16. Junction west of West Taphouse, SX14656313. 29th June 2006. CNF. Last recorded in SX16 before 1880.

SX25. several plants on road verge and in field with parents (*R. obtusifolius* and *R. crispus* ssp. *crispus*) near Windsworth, SX28175460, 24th September 2005. BCG conf. Paul R. Green. At Bodigga.

SX27625447, 24th September 2005. BCG conf. Paul R. Green. First and second records for SX25 since 1848.

***Rumex* × *pseudopulcher* (*R. crispus* × *R. pulcher*)**

SW87. One plant on side of lane with both parents (*R. pulcher* and *R. crispus*), Porthcothan, SW859719. 28th July 2008. IJB. New to SW87.

***Ruscus aculeatus* (INT)**

SX 38. In hedge, Trecrogo, SX30678055. 2nd October 2005. IJB. First for SX38 since before 1909.

SX46. Established on bank opposite church, Botusfleming, SX404612. 26th August 2008. IJB & CR. Last recorded in SX46 before 1950.

Sagina apetala* ssp. *apetala

SW43. Market Jew Street, Penzance, SW4730. 2007. GH. Last recorded in SW43 in 1965.

SW75. Trevaunance Cove, SW7251. 24th April 2008. BCG. Last recorded in SW75 before 1909.

SS21. In top car park, Sandymouth, SS20511003. 1st June 2004. PMG. Last recorded in SS21 before 1980.

Sagina maritima

SX19. Crackington Haven, SX1496. 25th July 2007. BCG. Last seen in SX19 in 1961.

SS20. On harbour wall, Bude, SS2006. 19th July 2008. IJB & MJS. Last recorded in SS20 before 1909.

***Sagittaria latifolia* (NEO)**

SW32. Abundant in pond, east of Carn Trevean, SW36382289. 1st September

2007. IJB. New to SW32, and second record for v.c. 1 and Cornwall.

SW85. Naturalised beside small pool on ditch, west of Lanteague Farm, SW80145370. 9 September 2004. NFS. First record for v.c. 1 and Cornwall.

***Salix alba* var. *vitellina* (ALIEN)**

SW83. Planted beside stream, south of Curgurrell, SW88533719, v.c.2. 29th August 2009. IJB. Last recorded in SW83 (in v.c.1 part) in 1820.

Salix aurita

SW83. On edge of mown areas in wet woodland, south of Philleigh (Philleigh Moor), SW870385. 7th October 2006. BCG. First record for SW83 since 1965.

Salix caprea

SX04. Bodrugan, SX015433. 6th September 2008. BCG. New to SX04.

SX17. Planted near Deweymeads, SX1672. 18th June 2006. IJB. New to SX17.

SX36. Beside stream, west of Trehunist, SX31126379. 25th September 2005. IJB. First confirmed record for SX36.

***Salix fragilis* (ARC)**

SX18. Trewassa, SX1486. 5th July 2009. BCG. New to SX18.

***Salix fragilis* var. *furcata* (ALIEN)**

SX26. One tree beside river, west of North Bosent, SX21346380. 31st July 2010. IJB. New to SX26.

Salix repens* ssp. *repens

SW83. on cliff flush site, Pennance Point, SW80413063. 25th May 2005. BCG. First record for SW83 since 1856.

An unusual location as it is right on the edge of a low open sheltered cliff, but with an interesting association. *Carex flacca*, *Serratula tinctoria*, *Succisa pratensis*, *Potentilla erecta*, *Carex caryophylla*, *Pimpinella saxifraga*, *Erica cinerea* and *Osmunda regalis*. This is also very close to the newly discovered site of *Melittis melissophyllum*, also in a coastal position.

Salix viminalis (ARC)

SW54. Higher Pencobben, road south of, SW5942. 2nd June 2004. BCG. New to SW54.

Salix ×ambigua (*S. aurita* × *S. repens*)

SW85. Newlyn Downs, SW83835410, with both parents. 12th August 2007. IJB. New to SW85.

Salix ×multinervis (*S. cinerea* × *S. aurita*)

SW32. Low bush close to path, just south of Land's End complex, SW344248. 2007. GH. New to SW32.

SW85. Newlyn Downs, SW831542, with both parents. 12th August 2007. IJB. Determined IJB. New to SW85.

SX26. In hedge between Coombe Farm and Carglonnon, SX22396009. 14th August 2005. IJB. In hedge, west of North Treviddo, SX27386223. 14th August 2005. IJB. Both First records for SX26.

SX38. Northwest of Wringsdown, SX31098788. 27th August 2005. BCG. Beales Meadow, SX30468955. 27th August 2005. BCG. First and second records for v.c. 4 part of SX38 now in Cornwall.

SX38. West of South Petherwin, SX30178183. 2nd October 2005. IJB. First record for SX38 for v.c. 2 part of SX38.

Salix ×reichardtii (*S. caprea* × *S. cinerea*)

SX36. Beside stream, west of Trehunist, SX31126379, with both parents (*S. cinerea* ssp. *oleifolia* and *S. caprea*). 25th September 2005. IJB. Beside road in hedge, Leigh Lane, SX38596295. 28th August 2006. IJB. First and second records for SX36.

SX38. West of South Petherwin, SX30228181, with both parents (*S. cinerea* ssp. *oleifolia* and *Salix caprea*). 2nd October 2005. IJB. First record for SX38 since 1957.

Salix ×rubens nothovar. *basfordiana* forma *sanguinea* (*S. fragilis* × *S. alba* var. *vitellina*) (ALIEN)

SX04. Planted beside small pond, north of Polstreath, SX01724552. 3rd June 2007. BCG. New to Cornwall.

Salix ×sepulcralis nothovar. *chrysocoma* (*S. alba* var. *vitellina* × *S. babylonica*) (ALIEN)

SW32. Planted beside pond, east of Carn Trevean, SW36382286. 1st September 2007. IJB. New to SW32.

SX25. Near railway bridge, Sandplace, SX24775747. 10th October 2006. CNF. New to SX25.

Salix ×smithiana (*S. viminalis* × *S. caprea*) [*Salix ×sericans*]

SW94. One large tree beside stream, southeast of Nantellan, SW94404952. 23rd May 2005. IJB. New for SW94.

SX28. In hedge, east of Higher Trevell, SX26708068. 28th September 2008. IJB. New to SX28.

Salpichroa origanifolia (NEO)

SW52. Naturalised, St Michael's Mount, SW515298. 16th October 2008. MU. Last recorded in this site and in Cornwall in 1957.

Salsola kali ssp. *kali*

SW75. Two plants at northern end of Penhale Beach, SW763575, and three plants on beach north of Carn Haut, SW760560. 28th August 2009. PAG. Last recorded in SW75 before 1909.

SW97. On embryo sand dunes, Rock, SW9276. August 2005. RB. First record for SW97 since before 1980.

Sambucus ebulus (ARC)

SW84. Established on disturbed ground of new roadworks, between Cathedral View and Bodmin Road, Truro, SW833463. 11th May 2004. KLS. First for SW84.

Sanicula europaea

SW87. In wet wood west of St Ervan, SW886705. 8th August 2008. IJB. New to SW87.

Saponaria officinalis (ARC)

SW32. Arden-Sawah, SW372231. 1st September 2007. IJB. Last recorded in SW32 in 1973.

SX08. Established on road verge, Treknow, SX05528709. 17th September 2008. IJB. Last recorded in SX08 before 1909.

SX47. Near Delaware Farm, SX4271. 24th October 2008. IJB & CR. New to SX47.

Sasa palmata (NEO)

SW42. In lane near cove, Penberth, SW4022. 2002. GH. New to SW42.

SW72. Along about half a mile of estate track east of Trevean, SW766205. 7th June 2006. DAP & AVP. Last recorded in SW72 in 1966.

SX46. Beside railway station, Calstock, SX434687. 17th October 2008. IJB & CR. New to v.c. 2 part of SX46.

Saxifraga tridactylites

SW86. Hundreds in cracks in Newquay railway station platform, SW816617. 27th April 2007. TP. New to SW86. Recorded nearby (Pentire East, SW7961) before 1909.

SX04. on roof, Pentewan, SX018473. 12th April 2005. KP-M. Second recent record for SX04.

SX38. Abundant on edges of pavements in three sites in Newport area of Launceston, SX329853, and along wall beside River Kensey SX328851. Spring 2005. IMcC conf. IJB. First record for SX38 since 1970.

Saxifraga ×urbium (*S. umbrosa* × *S. spathularis*) (NEO)

SX27. Naturalised near Trewinnow Cross, SX28957912. 12th May 2005. IJB. New to SX27.

Schedonorus arundinaceus

[*Festuca arundinacea*]

SX27. On riverbank in wood, Broad Wood, SX290742. 25th June 2005. BCG. New for SX27.

Scilla autumnalis

SW32. Many plants (with fruiting *Scilla verna*) on dry slope, Hella Point, SW36962153. 11th August 2007. IJB, AVP, DAP. Last recorded in SW32 in 1977.

Scilla bifolia (NEO)

SX45. Naturalised in short grass under trees, by Barn Pool, Mount Edgcumbe, SX456526. 14th March 2007. SCM. New to Cornwall.

Scirpus sylvaticus

SX19. Large patches in wet wood, northeast of Trevigue, SX13989539 & SX140954. 10th May 2006. BCG. New to SX19.

Scleranthus annuus ssp. annuus

SW73. Halabezack Farm, SW702345. 25th July 2005. KP-M. First record for SW73 since 1973, and Cornwall since 1993.

SW73 in open areas along tractor tracks and in gateway between arable fields used for Narcissus bulbs, Halabezack Farm, SW70143458 (a few plants), SW70103452 (over 200 plants), SW70043442 (more than 50 plants), SW70203449 (one plant). 23rd September 2005. IJB & PAG.

Several historic records for this species are known for this hectad in an area between Camborne and Redruth, and Falmouth. The soils in the field at Halabezack are well draining gritty soils derived from granite, typical of places where the species may be found elsewhere in Britain. It may well be worth searching similar situations within Cornwall, especially in granite areas.

Scutellaria minor

SX26. Abundant in rush pasture north of Middle Hill Farm, SX29116923. Frequent in tussocky field, north east of Attwood Farm, SX289688. 23rd August 2007. AA, MA, IJB, CR. Last recorded in SX26 in 1882.

Scutellaria ×hybrida (*S. galericulata* × *S. minor*)

SW75. On edge of field, southeast of Carnkief Pond, SW787520. 15th September 2009. IJB. New to SW75.

SW96. Beside stream, Lower Polmorla, SW975643. 2009. IJB. New to SW96.

Sedum acre

SX05. On mortared wall, Par, SX078536. 30th June 2005. PH. First record for SX05 since 1902.

Sedum album (ARC)

SS21. Beside road, Houndapitt, SS2111. 2nd July 2005. IJB. New for SS21.

Sedum confusum (NEO)

SW32. On side of footpath on west side of Treen car park, SW394229. 2007. GH. New to SW32.

SX35. On slumped cliff, Seaton, SX30285440. 24th September 2005. BCG conf. Paul R. Green. First record for SX35

Sedum kamtschaticum (NEO)

SX25. Widegates, SX28945765. 10th October 2006. CNF. New to SX25.

Sedum spectabile (NEO)

SW96. Established on waste ground, St Breock Beacon, SW968683. 7th September 2007. IJB. New to SW96.

SX07. Road verge above town, Egloshayle, SX000772. 22nd October 2008. IJB. New to SX07.

Sedum telephium* ssp. *telephium

SW94. On hedge southwest of Nantellan, SW94044934. 23rd May 2005. IJB. First record for ssp. *telephium* for SW94.

Semiarundinaria fastuosa (NEO)

SX15. St Catherine's Point, SX118509. 18th August 2003. PH. Last recorded in SX15 (in this site) in 1983.

Sempervivum tectorum (NEO)

SX15. One plant on low roof with *Saxifraga tridactylites*, Fowey, SX128519. 2nd June 2003. PH. Last recorded in SX15 in 1920.

Senecio aquaticus

SW98. Coastal flush, south east of Pentire Point, SW93008004. 31st July 2009. IJB, CNF, DAP, AVP and MB. Last recorded for SW98 in 1977 (SW9380, Pentire Point, L. J. Margetts).

Senecio erucifolius

SX28. Road verge, northeast of Higher Trevell, SX26648083. 28th September 2008. IJB. New to SX28.

Senecio inaequidens (NEO)

SX45. About 4 to 5 plants on rough ground inside 'locked' sports area, Millennium Park, Saltmill, Saltash, SX428596. 4th September 2006. DF. New to Cornwall.

Senecio viscosus (NEO)

SW43. Railway siding by station car park, Penzance, SW4730. 2002. GH. New to SW43.

***Senecio* × *albescens* (*S. cineraria* × *S. jacobaea*)**

SX05. One plant at foot of wall, Tywardreath, SX079542. 28th June 2005. PH. New to SX05.

***Senecio* × *ostenfeldii* (*S. jacobaea* × *S. aquaticus*)**

SW43. Wet heathy grassland, Trengwainton Carn, SW441321. 2003. GH. New to SW43.

Setaria pumila (NEO)

SX05. Disturbed ground, Charlestown, SX038518. 7th August 2003. PH conf. RJM. Base of wall, Par athletics ground, SX079537. 27th August 2003. PH. Both new to SX05.

Setaria viridis (NEO)

SX15. Casual in pavement, Lostwithiel, SX109596. 30th August 2004. PH. New to SX15.

SX35. Several plants on recently cleared building site above car park, Downderry, SX314544. September 2005. SCM. also seen by WGL in 2005. New to SX35.

Silene flos-cuculi [*Lychnis flos-cuculi*]

SW52. Trevorvas Cottage, SW588283. 2004. AP-S. First record for SW52.

Silene gallica (ARC)

SW75. Thousands in arable field west of Droskyn Point, Perranporth, SW749541. 15th July 2007. DAP & AVP. Last recorded in SW75 before 1909.

Silene latifolia (ARC)

SX05. Between Spit Beach and Par Docks, SX07555248. 10th May 2009. DF. Last recorded in SX05 (also at Par) since before 1909.

SX16. Set-aside arable field near West Taphouse, SX155639. 24th June 2005. MA. First record for SX16.

SX35. On hedge, Trerulefoot, SX3358. 18th October 2008. IJB. Last recorded in SX35 before 1909.

SX36. In arable field, north of Leigh Farm, SX38046299. 28th August 2006.

IJB. First record for SX36 since before 1880.

Silene noctiflora (ARC)

SW87. In conservation headland, Trevoise area, SW8576. 7th July 1995. KJW. First record for SW87.

Silene vulgaris

SX05. Between Carlyon Bay and Charlestown, SX04645167. 18th May 2009. DF. New to SX05.

***Silene ×hampeana* (*S. latifolia* × *S. dioica*)**

SX05. Between Spit Beach and Par Docks, SX07555248. 10th May 2009. DF. New to SX05.

Sinapis arvensis (ARC)

SX26. On road verge, near Island Shop, SX2663. 14th August 2005. IJB. First record for SX26 since 1955.

SX29. North Petherwin to Godcott, SX29V. 8th May 2005. MA. First record for SX29 since before 1962.

Sison amomum

SW86. Several plants on pathside around pond, Trevisker Farm, St Eval, SW87916911. 14th July 2006. IJB. New to SW86.

Sisyrinchium bermudiana (INT)

SX05. Three plants in car park verge, Par Sands, SX089534. 16th July 2008. PH. New to SX05.

Sisyrinchium californicum (NEO)

SW61. In unimproved grassland beside Hayle Kimbro Pool, SW695170. 30th October 2005. PAG. Also seen 26th February 2006. IJB, PAG & MJS. New to SW61.

SX05. Several self-sown plants at foot of roadside wall, Par, SX079539. 16th May 2008. PH. New to SX05.

***Solanum lycopersicum* [*Lycopersicon esculentum*]** (NEO)

SX15. Casual on pavement, Lostwithiel, SX104599. 14th October 2005. PH. New to SX15.

SX35. At back of beach, Tregantle, SX38435286. 14th August 2009. IJB. New to SX35.

Solanum nigrum (ALIEN)

SW93. On waste ground, Rosen Cliff, SW9237. 11th October 2004. IJB. First record for SW93.

Solanum tuberosum (NEO)

SX05. Casual on road verge, Par, SX075536. 2nd August 2003. PH. Last recorded as a casual in SX05 in 1941.

Sonchus arvensis

SX39. Tamerton Town Farm, North Tamerton, SX3196. 1st July 2006. BCG. New to v.c. 2 part of SX39.

Sorbus intermedia (NEO)

SW94. Planted on roadside, north of Penans, SW95344908. 23rd May 2005. IJB. New for SW94.

Sorbus torminalis

SX39. One tree in hedge near *Sorbus devoniensis*, northwest of Beardon, SX300935. 16th June 2005. David Cann. First record for v.c. 2 part of SX39. A pre-1970 record exists for the North Devon (v.c. 4) part of SX39.

Sparganium erectum

SX19. Large patches in wet wood, northeast of Trevigie, SX139953 & SX140954. 10th May 2006. BCG. New to SX19.

Sparganium erectum* ssp. *neglectum

SW97. Beside Polmorla Stream, Wadebridge, SW989721. 27th July 2005. IJB. First record for SW97.

Spergularia bocconei (NEO)

SW76. On stony soil, building site, Crantock, SW788602. 9th May 2009. HMM det. RJM. New to SW76, but recorded in Newquay (SW76 OR SW86) in 1915 BY C.C. Vigurs.

SW97. Abundant on moderately eroded areas of car park, Old Lead Mines, Pentire, SW94087998. 19th June 2005. MU. Third record for SW97 since 1996.

SW98. A few plants scattered along coastal footpath between Pengirt Cove and Downhedge Cove, SW945801. 19th June 2005. MU. New to SW98.

SX46. Several plants on cobbled area, Cotehele Quay, SX42386807. 29th May 2009. IJB & CR, det. RJM. New to SX46.

Spergularia bocconeii is increasingly being found in gravel or open areas near the coast, especially car parks. It is worth checking these types of places for more populations.

***Spiraea ×billardii* (*S. alba* × *S. douglasii*) (NEO)**

SW95. Naturalised beside road west of Watch Hill, SW973549. 22nd August 2007. BCG. New to SW95.

***Spiraea ×pseudosalicifolia* (*S. salicifolia* × *S. douglasii*) (NEO)**

SS21. Naturalised in hedge, west of Marsborough, SS23701452. 24th August 2008. IJB. New to SS21.

SX26. Naturalised in rough part of St Cleer Downs, SX24676796. 3rd September 2008. IJB & CR. New to SX26.

Spiranthes spiralis

SW83. About 60 plants flowering in lawn in front of National Trust warden's cottages, St Anthony Head, SW84763127, v.c.2. IJB, CNF & DAP. Last recorded for v.c.2 part of SW83, (also at St Anthony Head) in 1909.

SW98. Pentire Head, SW98F. 23rd August 2007. Paul Lambourne, from photo on surfbirds.com. Last recorded in SW98 in 1977.

SX05. Three spikes on road verge, Carlyon Bay, SX050521. 25th August 2005. PH. On grass verge, west of entrance to Imerys labs, Par, SX058528. 10th September 2005. Isobel Oulton. First and second records for SX05 since before 1909.

SX25. One spike in coastal turf, west of Bridge Rocks between Talland and Looe, SX237513. 9th September 2005. CR. First record for SX25 since before 1909.

Spirodela polyrhiza

SS20. Sparse, with much more abundant *L. minuta* in southern edge of Bude Canal, Hele Bridge, SS217036; Dozens of thalli in small area (each thallus very large with numerous roots), with abundant *L. minuta* just above lock in Bude Canal, Roddsbridge SS21140464. 1st August

2006. DTH. New to Cornwall and presumably a native occurrence.

***Stachys arvensis* (ARC)**

SX26. In arable field south of Coombe Farm, SX2260. On road verge, Tenecreek and Island Shop, SX2663. 14th August 2005. IJB. First and second records for SX26.

***Stachys ×ambigua* (*S. sylvatica* × *S. palustris*)**

SW54. St Ives, SW5040. 3rd July 2004. BCG. Last recorded in SW54 in 1956.

SW85. Beside St Newlyn East Golf Course, SW83755554. 8th August 2007. CNF. New to SW85.

SX39. Beside River Tamar with both parents, Tamerton Town Farm, North Tamerton, SX3296. 1st July 2006. BCG. New to SX39.

Stellaria neglecta

SX19. St Gennys, SX1497. 25th July 2007. BCG. Last seen in SX19 before 1980.

SX37. Near Stoke Climsland, SX3573. 15th May 2005. MA. Second recent record for SX37.

SX39. Tamerton Town Wood, North Tamerton, SX3296. 1st July 2006. BCG. New to SX39.

SX47. Roadside at Hatches Green, SX432709. SX432709. MA. First record for v.c.2 part of SX47.

Stellaria pallida

SX05. Par, SX082536. 3rd May 2005. DAP & AVP. First for SX05 since before 1980.

SX45. Torpoint Bus Station, Trevol Road, Torpoint, SX433553. 5th June 2006. DF. First record for SX45 since before 1880.

***Stranvaesia davidiana* [*Photinia davidiana*] (NEO)**

SW94. Naturalised on steep bank by road, between east and West Portholland, SW958412. 16th June 2009. IJB. New to SW94.

***Sutera cordata* (ALIEN CASUAL)**

SW42. Casual on pavement, Tolcarne Terrace, Penzance, SW46332900. 2009. GH. New to SW42.

SX05. Pavement weed, Tywardreath, SX086544. 25th April 2007. PH det. RJM. New to SX05.

Symphytum grandiflorum (NEO)

SS21. Naturalised beside stream, Gooseham, SS229163. 17th May 2009. BCG. New to SS21.

Symphytum orientale (NEO)

SX05. Roadside hedgebanks, Tywardreath, SX081541. 4th April 2003. PH conf. F.H. Perring. New to SX05 and v.c. 2.

Symphytum tuberosum (INT)

SX05. Beside path on southern edge of boardwalk, west part of Par Beach, SX07885332. 21st April 2009. DF. New to SX05.

Symphytum xuplandicum

(*S. officinale* × *S. asperum*) (NEO)

SW32. Laneside, Nanquidno, SW36302915. 2008. GH. New to SW32.

SW42. Lane to Boskenna, St Buryan, SW4323. 2002. GH. New to SW42.

Symphytum 'Hidcote Pink' (NEO)

SW75. Road verge, near Perran Round, SW77925441. 2nd May 2009. IJB. New to SW75.

SW83. Lane to Chycoose, Point, SW809388. Tramway, Point, SW808386. 27th March 2005. DAP & AVP. New to SW83 and v.c. 1.

Syringa vulgaris (NEO)

SW95. Naturalised on hedge east of Goonabarn, SW961547. 22nd August 2007. BCG. New to SW95.

SX26. Naturalised in rough part of St Cleer Downs, SX24676796. 3rd September 2008. IJB & CR. New to SX26.

SX28. On road verge of A30, south of Trebant, SX2380. 10th October 2008. IJB. New to SX28.

Tamarix gallica (NEO)

SS21. Beside road, Duckpool, SS2011. 12th June 2005. BCG. New for SS21.

Tanacetum vulgare

SW87. On hedge, west of St Ervan, SW88207038. 8th August 2008. IJB. Last recorded in SW87 in 1955.

SX25. In roadside hedge at entrance to lane to Keveral, SX28995517. 24th September 2005. BCG. First record for SX25.

Teesdalia nudicaulis

SW63. White Alice, SW698347 and SW697351. 24th April 2005. KP-M. First record for SW63 since before 1909.

SX16. Southwest of Whitebarrow Farm, 200 plants on granite hedge on west side of road, SX19106985. 18th April 2007. IJB. New to SX16.

Thlaspi arvense (ARC)

SW87. In disturbed ground, Porthcothan, SW859719. 28th July 2008. In gateway to arable field, west of St Ervan, SW88047042. 8th August 2008. IJB. Both new to SW87.

SW97. In arable field, northwest of Three Holes Cross, SX008738. 13th August 2009. IJB & CB. New to SW97.

Thymus polytrichus

SX26. Around base of rocks, north side of St Cleer Downs, SX24589798. 3rd September 2008. IJB & CR. Last recorded in SX26 in 1972.

Thymus vulgaris (NEO)

SX05. Several plants on edge of pavement, Tywardreath, SX085545. 14th August 2003. PH. New to SX05.

Tilia cordata (INT)

SW94. Planted on roadside, southeast of Trewinnow Meor, SW95814933. 23rd May 2005. IJB. New for SW94.

Tolmiea menziesii (NEO)

SS21. Naturalised beside stream, Gooseham, SS229163. 17th May 2009. BCG. New to SS21.

Torilis nodosa

SX35. Along foot of bus shelter, surviving council spraying for 5 years, Donderry, SX314541. 2005 (though first seen in June 2002). SCM. Last recorded in SX35 before 1909.

SX46. On grassy area and kerbside Cargreen, SX43366258. 1st June 2008. BCG. Last recorded in SX46 in 1880.

SS20. Roadside bank by golf course, where fencing to keep golf balls off road,

Bude, SS20870680. 30th May 2006. PMG.
New to SS20.

Tragopogon pratensis

SW52. Trevorvas Cottage, SW588283.
2004. AP-S. First record for SW52.

Trichophorum germanicum

[*Trichophorum cespitosum* ssp.
germanicum]

SW85. On heathland, Newlyn Downs,
SW8253 and SW8354. 12th August 2007.
IJB. New to SW85.

Trifolium bocconeii

SW71. Fewer than 10 plants, Poldowrian,
SW74911679. 29th May 2005. BCG. 37
plants, Treleaver Cliff, SW77111615 (with
Juncus capitatus nearby at SW77091614).
29th May 2005. BCG. First records of
Trifolium bocconeii for SW71 since 1983.

Black Head was also checked for
Trifolium bocconeii by DAP and KJW on
3rd July 2005 and the following was
observed:

- SW77381633 – 30 plants
- SW77411637 – 8 plants
- SW77621636 – 7 plants
- SW77671633 – 2 plants
- SW77971674 – 2 plants

Trifolium campestre

SW82. Beside track beside disused quarry,
Porthoustock, SW8021. 1st July 2006. IJB
& DAP. First record for SW82 since 1971.

SX03. Dodman Point, SX00193924. 19th
June 2009. IJB & DAP. New to SX03.

Trifolium fragiferum

SW87. In damp fairway of golf course on
sand dune, Constantine, SW862750. 20th
July 2006. IJB & PD. New to SW87.

Trifolium medium

SX47. Sylvia's Meadow, St Ann's Chapel,
SX412707. 28th June 2007. IJB & CR.
New to v.c. 2 part of SX47.

Trifolium micranthum

SX03. Dodman Point, SX00133931. 19th
June 2009. IJB & DAP. New to SX03.

SX04. Winnick to Portgiskey, SX0146. In
unimproved grazed field north of
Polstreath, SX01794557 (with *Trifolium*
striatum, *T. subterraneum*, *T. dubium*, *T.*
repens, *T. pratense* and *Lotus subbiflorus*).

3rd June 2007. BCG. Last recorded in
SX04 before 1922.

SX17. On roadside verge, near Temple
Bridge, SX1573. 25th July 2008. IJB. First
for SX17 since 1883.

SX46. In middle of lane, on footpath, east
of Ellbridge, SX40776321. 1st June 2008.
BCG. Last recorded in SX46 in 1880.

Trifolium scabrum

SW98. Coastal turf on rocky outcrop,
Pentire Point, SW92878010. 28th June
2009. BCG. Last recorded in SW98 in
1979.

Trifolium striatum

SW75. North of Penhale Camp, SW7658.
27th June 2006. IJB. Last seen in SW75 in
1981.

SW98. Coastal turf on rocky outcrop,
Pentire Point, SW92878010. 28th June
2009. BCG. Last recorded in SW98 in
1979.

SX04. In unimproved grazed field north of
Polstreath, SX01794557 (with *Trifolium*
micranthum, etc.), 3rd June 2007. BCG.
New to SX04.

Tripleurospermum maritimum

SX28. Road verge of the A30 dual
carriageway north of Higher Trevell,
SX261808. 28th September 2008. IJB.
New to SX28.

Trisetum flavescens

SX19. Large colony amongst grass,
bracken and scrub area, Valency Valley,
SX100912. 10th May 2006. TJD. New to
SX19.

***Triticum aestivum* (ALIEN CASUAL)**

SW42. One plant on shingle, Newlyn,
SW4629. 2005. GH. New to SW42.

SW43. On pavement of Bread Street!,
Penzance, SW4730. 2003. GH. New to
SW43.

SX04. Roadside casual, west of Lobb's
Shop, SX020495. 25th July 2005. PH. New
to SX04.

Tropaeolum majus (ALIEN CASUAL)
SX19. On river gravel, Boscastle,
SX101912. 22nd October 2005. BCG. First
for SX19.

SX45. Kingsand/Cawsand, SX4350. 12th
October 2006. CNF. New to SX45.

Tulipa gesneriana (NEO)
SX05. Waste ground Par Sands,
SX087533. 30th March 2003. PH. New to
SX05.

Typha angustifolia (INT)
SW75. Evidently planted on edge of pond
east of Rose Cottage, near Ventongimps,
SW784518. 9th September 2004. NFS.
First record for SW75.

Typha latifolia
SX38. In pond, north of Yeolmbridge,
SX31548795. 27th August 2005. BCG.
First record for Cornwall part of SX38,
and also in v.c. 4.

Ulmus glabra
SX36. Between Trehunist and Lambest,
SX3163, 25th September 2006, IJB. In
hedge west of Swiftaford, SX3962, 28th
August 2006, IJB. First and second
records for SX36.

Ulmus ×hollandica (*U. glabra* × *U.*
minor) *sensu* Stace
SX07. Along footpath, Sladesbridge,
SX0171. 6th May 2005. IJB. New to SX07.

SX28. North Petherwin to Godcott,
SX28Z. 8th May 2005. MA. New to SX28.

SX37. South of Browda Wood,
SX30547171. 17th June 2006. BCG. New
to SX37.

SX38. One large tree, about 50 ft high and
with bole about 1 m in diameter, no sign
of disease, in hedge at entrance to Grove
Town, SX30828824. 27th August 2005.
BCG. First record for v.c. 4 part of SX38.

SX38. On hedge, south of Trelinnoe,
SX31548098. 2nd October 2005. IJB. First
record for v.c. 2 part of SX38.

Urtica urens (ARC)
SW98. Arable margin, Pentire,
SW93628023. 28th June 2009. BCG. Last
recorded in SW98 in 1908.

Vaccinium myrtillus
SX38. On edge of wood on road bank,
Trebursye Wood, SX302847. 16th August
2007. IJB. Last seen in v.c. 2 part of SX38
before 1980.

Valerianella dentata (ARC)
SX07. In uncultivated cropped margin,
near St Maby, SX0273. 7th July 1995.
KJW. New to SX07. No records since.

SX35. About 20 plants in corner of arable
field near Tommiland, St Germans,
SX34535879. 21st October 2008. IJB.
With *Euphorbia exigua*, *Misopates*
orontium, *Stachys arvensis* and *Spergula*
arvensis. Last recorded in SX35 (at St
Germans) in 1880 by T.R. Archer-Briggs.

Valerianella eriocarpa (NEO)
SW76. Several plants on edge of pavement
below hedgebank with *Valerianella*
carinata, Riverside Avenue, Pentire,
SW79346133. 18th May 2007. HMM. Last
seen in SW76 by C.C. Vigurs before 1909.

Verbascum nigrum
SW54. Upton Towans. 7th July 1996. BJ &
EJ. New to SW54.

Verbascum phlomoides (NEO)
SW43. A single plant on northwest side of
Long Rock A30 roundabout, SW490313.
2003. GH. LANC. New to SW43.

Verbascum thapsus
SW98. Pentire, SW9380. 28th June 2009.
BCG. Last recorded in SW98 in 1979.

SX19. Valency Valley, SX1190. 22nd
October 2005. BCG. First for SX19.

Verbena bonariensis (ALIEN CASUAL)
SX27. On track, Knighton, SX25087963.
5th August 2007. BCG. New to SX27.

SX35. Naturalised, Downderry, SX3153.
25th September 2008. IJB. New to SX35.

Verbena officinalis (ARC)
SX26. beside road and wall, Kircumb,
SX2763. 14th August 2005. IJB. First
record for SX26 since 1955.

Veronica hederifolia ssp. *lucorum* (ARC)
SX29. North Petherwin to Godcott,
SX29V. 8th May 2005. MA. First record
for SX29 for ssp. *lucorum*.

Veronica officinalis

SX03. Dodman Point, SX00353976. 19th June 2009. IJB & DAP. New to SX03.

Veronica polita (NEO)

SW84. Several plants on wall, beside path east side of Truro River, Truro, SW82904479. 2nd February 2006. IJB. New to SW84 (v.c. 2 part).

SX28. On disused railway bridge, Newmills, SX29808507. 26th September 2008. IJB. New to SX28.

SX38. Beside road Yeolmbridge, SX31668740. 27th August 2005. BCG. First record for SX38.

Veronica salicifolia [*Hebe salicifolia*] (NEO)

SW95. Planted beside track (and spreading) east of Little Drinnick Farm, SW963557. 22nd August 2007. BCG. New to SW95.

Veronica* × *franciscana (*V. elliptica* × *V. speciosa*) [*Hebe* × *franciscana*] (NEO)

SX15. Riverside wall, Fowey, SX124514. 4th August 2003. PH. Last recorded in SX15 in 1971.

SX36. Single self-sown plant on car park wall, parent plant in flower borders near by, Callington, SX359694. 20th December 2005. PRG. New to SX36.

Vicia lathyroides

SW83. Two plants on open area on revegetated concrete, part of embankment, Pendennis Castle, SW82463176. 25th May 2005. BCG. Last seen in 1992 at this site – the only one in Cornwall.

Vicia lutea

SW93. Hundreds of plants on cliff, Rosen Cliff, SW92133741. 29th May 2007. DAP & AVP. New to SW93.

Vicia sativa* ssp. *segetalis (ARC)

SX17. De Lank Quarry, SX102753. 25th May 2006. CNF. New to SX17.

Vinca difformis (NEO)

SX05. Self-sown garden escape naturalised on road verge, Penpillick, SX080565. 23rd May 2005. PH, det. IJB. New to SX05 and v.c. 2.

Vinca minor (ARC)

SX05. Roadside, Charlestown, SW039516. 24th March 2003. PH. New to SX05.

Viola odorata* var. *dumetorum

SX37. Under trees and in undergrowth, St Lawrence, SX3379. April 2006. Veryan Milne-Home, det. IJB. New to SX37.

Viola palustris* ssp. *juressi

SW83. In mown areas in wet woodland, south of Philleigh (Philleigh Moor), SW870385. 7th October 2006. BCG. First record for SW83 since 1983.

Viola tricolor* ssp. *tricolor

SW42. By Wherrytown boating pool, Penzance, SW467295. 2001. GH. New to SW42.

Viscum album

SW73. Tregullow, SW72924325. December 2005, Diane Baldry. First record for SW73 since 1960.

Vulpia bromoides

SX03. Dodman Point, SX0039. 19th June 2009. IJB & DAP. New to SX03.

Vulpia myuros (ARC)

SW94. Between West and East Portholland, SW95814120. 16th June 2009. IJB. Last recorded in SW94 before 1909.

Yushania anceps (NEO)

SX15. Naturalised on streambank, Fowey, SX124523. 20th March 2003. PH. Last recorded in SX15 in 1980.

Zostera marina

SX04. Dense bed off Ropehaven, north of Gerrans Point to the southern edge of St Austell Bay, SX038460. 2004. Ken Whittamore. First record for SX04 since before 1980.

SX05. Substantial number of small patches (most 2 m – 3 m in diameter), about 200 m off Porthpean Beach, SX032506 to SX033508 approx. 4th August 2004 & 4th September 2004. Ruth Williams. First record for SX05 since before 1980, and of a colony, not of stranded material.

Zostera noltei

SX25. Two small patches on west bank of east Looe River, SX253542. Summer 1997. Dr Ashley Rowden. New to SX25.

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Plant records and update from the Isles of Scilly

Rosemary Parslow

It was in 2005 that the downturn in the bulb industry in the Isles of Scilly really struck home. Several suites of fields where there had previously been rich crops of arable 'weeds' only two years before, were found to have been converted to other crops such as vegetables or put down to grass. Now on some islands there are only a handful of farmers growing the winter crops of narcissus for the cut flower trade and on the island of Bryher there are no flower farms any more. So it is hoped the new Higher Level Stewardship for the Isles of Scilly will encourage some farmers to consider including the arable plants as part of their farm regime.

In 2007 two strandline plants reappeared, Sea Pea *Lathyrus japonicus* ssp. *maritimus* and Sea Knotgrass *Polygonum maritimum*. The *Polygonum* was soon washed away again although its appearances are always intermittent, but the Sea Pea grew quite high up the beach and has survived, by 2009 there was a patch of c75 plants.

The Isles of Scilly are already home to a very large number of alien introductions, garden escapes and accidental arrivals, so it is inevitable that over time more such unwelcome guests will become established. Canadian Fleabane *Conyza canadensis* is uncommon in Scilly, but two related species, Argentine Fleabane *Conyza bonariensis* and Guernsey Fleabane *Conyza sumatrensis* are recent arrivals that appear to be spreading successfully. Another such is Toothed Fireweed *Senecio minimus*, a very invasive plant that is spreading rapidly through dunes and woodland on Treco, had reached the dunes at Rushy Bay, Bryher before 2009 and the uninhabited island of Samson in 2009. Despite pulling up the six plants on Samson it is probably unstoppable. Growing to at least a metre tall the plant has branching heads with small yellow flowers followed by masses of small, fluffy seeding heads. The stems are ridged and leaves strongly toothed along the edges. Originally from Australasia it is suspected it was an accidental introduction with plants to Treco Abbey Gardens. Elsewhere in the world it is already known as a very invasive weed.

The sandy soils of the dunes are an easy place for some plants to become established. Treco dunes already have the legacy of earlier deliberate plantings of many species of garden plants such as African Lily *Agapanthus praecox*, Rhodostachys *Fascicularia bicolor*, Red Hot Pokers *Kniphofia* spp., Treco Rhodostachys *Ochagavia carnea*, Bugle-lily *Watsonia borbonica*, etc. Now the Toothed Fireweed and another *Senecio* species, Woad-leaved Ragwort *Senecio glastifolius* have joined the ménage of aliens and native plants such as *Allium ampeloprasum* var. *babingtonii* and Balm-leaved Figwort *Scrophularia scorodonia*. Woad-leaved Ragwort is a tall, handsome garden plant with large blue 'daisy' flowers that is already something of a weed in the Abbey Gardens.

In 2009 the record of Mouse-ear-hawkweed *Pilosella officinarum* from St Mary's originally sent by Colin Wild in 2008 was confirmed, when several flowering plants were located in an abandoned bulb field near Halangy. Until then the only locality for the species was in dune grassland on the Plains, St Martin's.

Prickly Saltwort *Salsola kali* is now a very rare plant in Scilly; a few decades ago it was found on most sandy beaches, but is now in serious decline having been lost from all its former stations. The finding of a plant on the uninhabited island of Teän in 2009 by Dave Mawer from the Isles of Scilly Wildlife Trust, and of a plant on Samson in 2004 are the only recent records.

As part of the BSBI Threatened Plant Survey in 2009 all the known sites for Tubular Water-dropwort *Oenanthe fistulosa* were re-surveyed. Plants were found in two sites out of four known previously. As the plant grows in very wet places such as reedbeds and waterlogged

grassland it is very vulnerable to changes in the water table or being crowded out by more robust species. Only c125 plants were counted, so it is a species to continue monitoring.

Toothed Fireweed *Senecio minimus*, Tresco, 2009. © Rosemary Parslow

