

Recording skills



This is intended as an interactive session, so I'll be asking you questions as we go and do come in with your own at any time.

*Alan Leslie at
the BSBI
Conteaster
meeting in
2021*



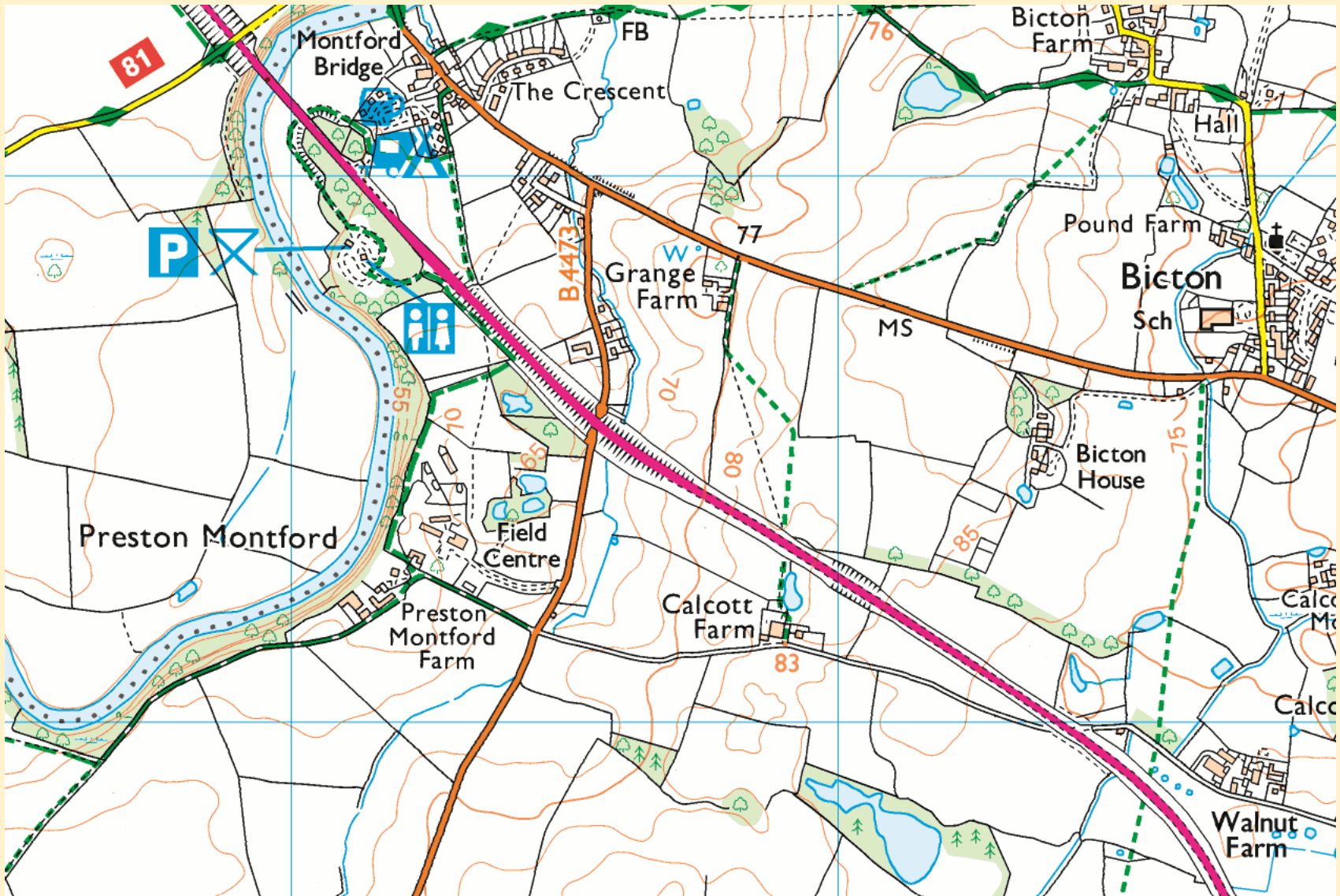
We'll be covering

- Maps and mapreading
- GPS accuracy
- Sites and site names
- Record entry, including apps
- Recording cards
- Submitting records
- Verification
- Recording priorities

*Alan Leslie describing a
Ranunculus auricomus*



Maps and map reading



Where are these places and how far apart are they?

`///storms.presuming.topical`

`///curly.committed.troubled`



Where are these places and how far apart are they?

`///storms.presuming.topical =`

`SJ43521435 = B4473`

`///curly.committed.troubled =`

`SJ43301435 = House`



SJ43521435

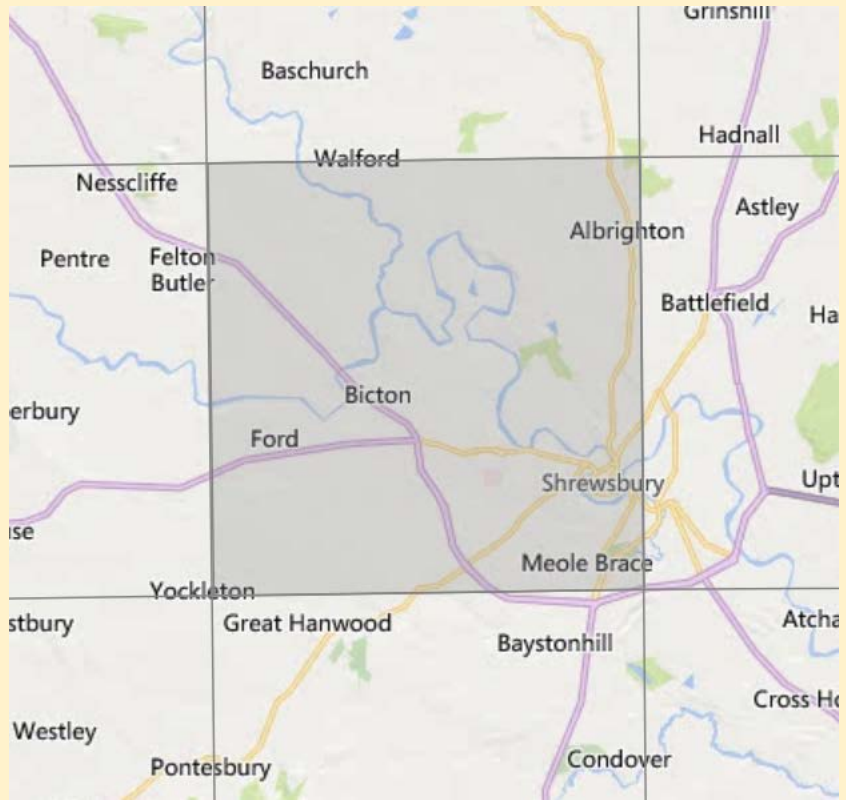
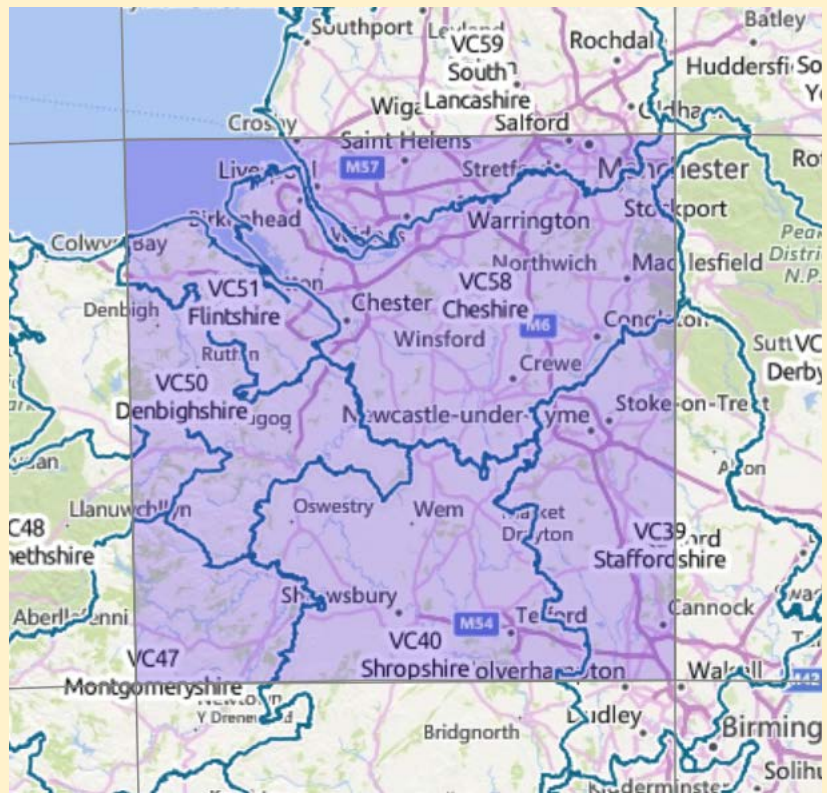
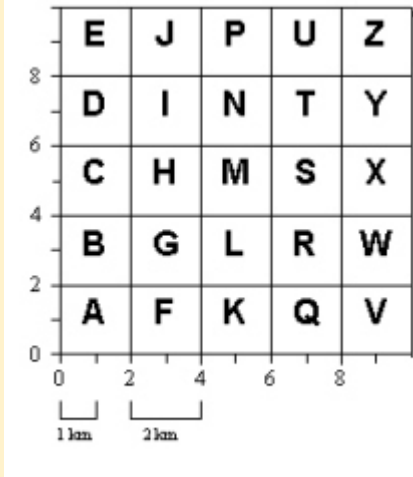
SJ = 100 km square

SJ41 = hectad

SJ41H = tetrad

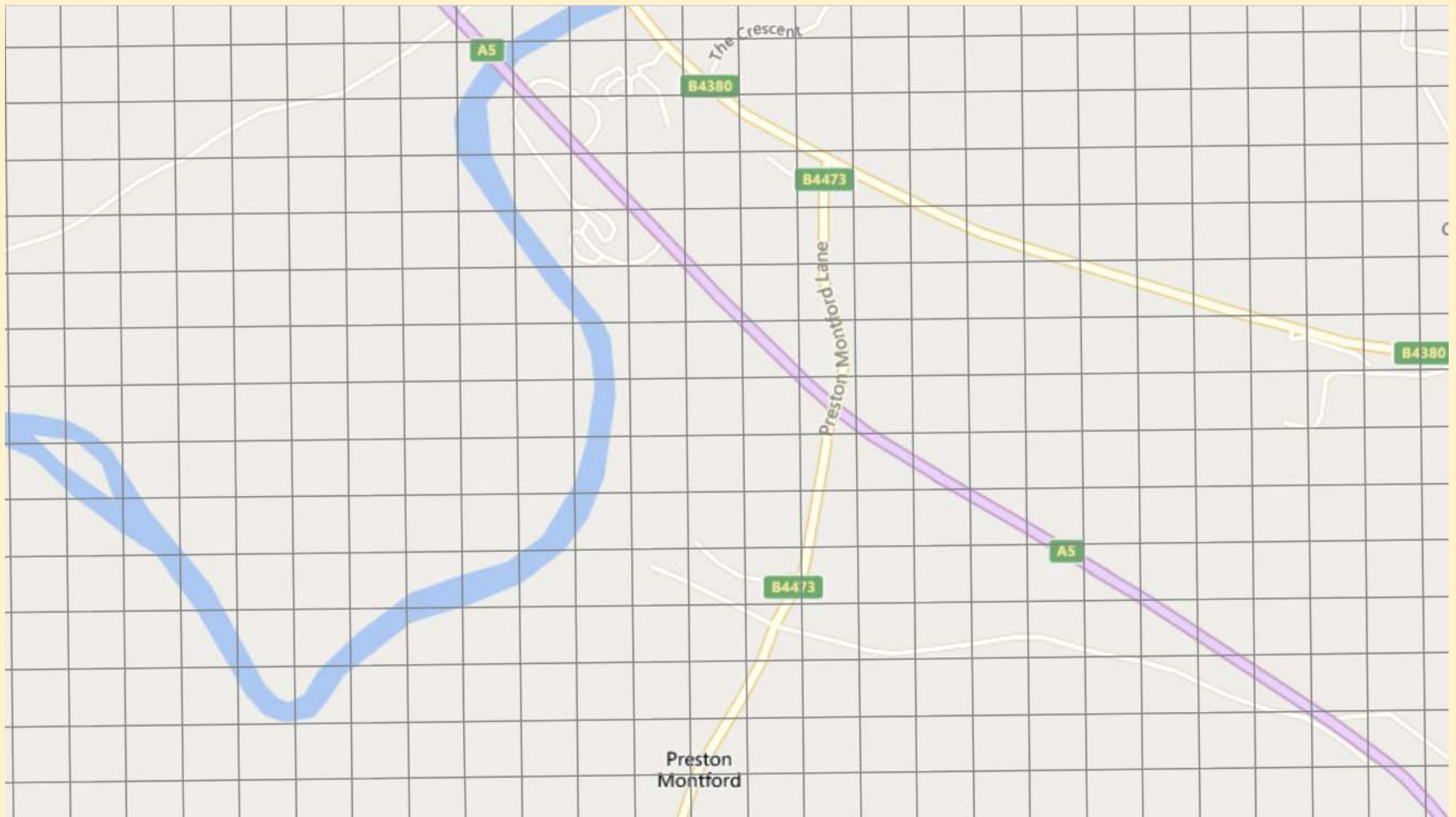
SJ4314 = monad

The difference in easting 4352 – 4330 says that they are 220 metres apart



Cucaera <https://www.cucaera.co.uk> allows you to view a variety of maps and read off positions

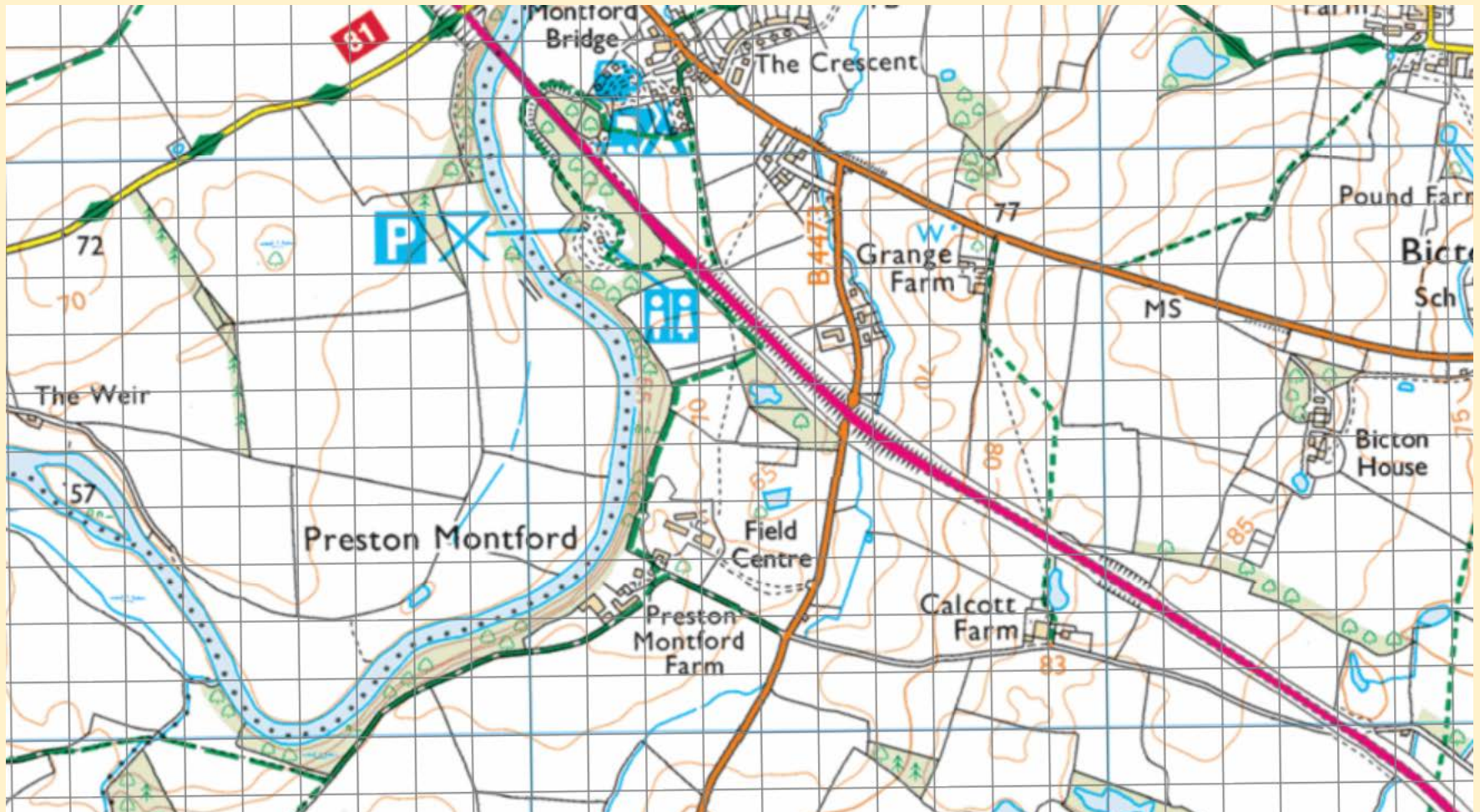
The Roadmap only shows major roads



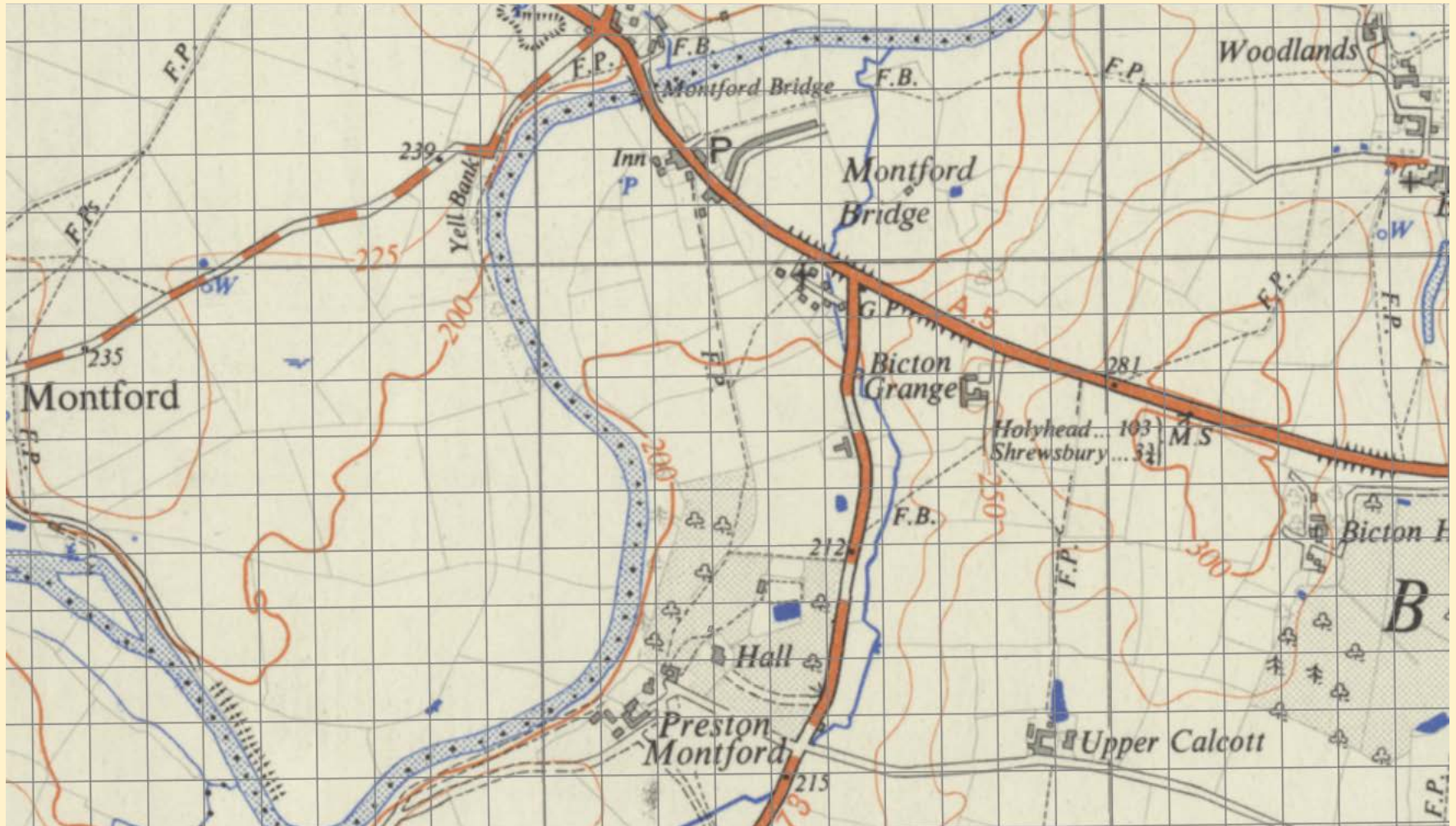
The OS 1:50,000 shows more detail



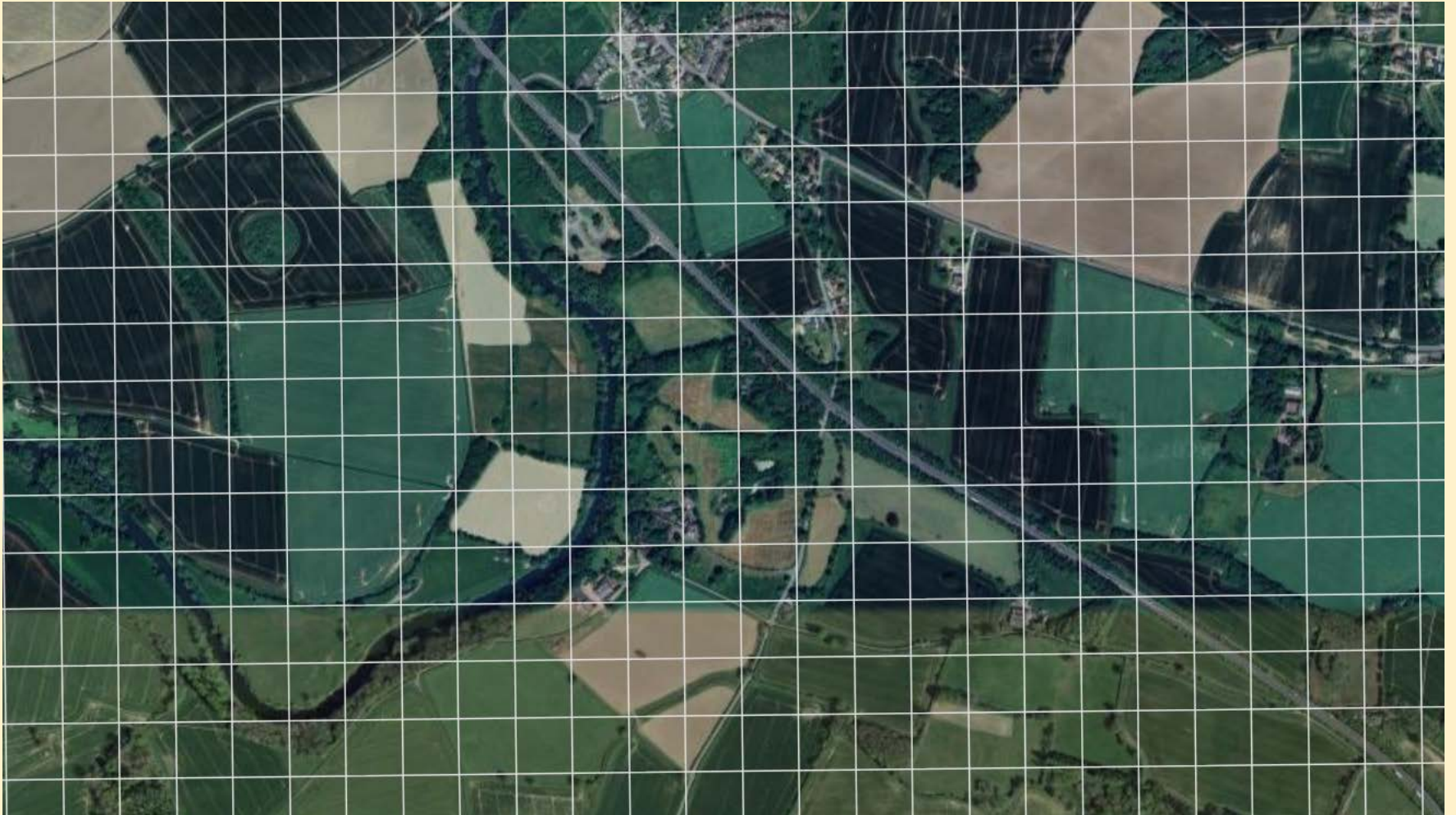
The OS 1:25,000 is generally best for navigating in the countryside



You can also view the 1937 - 1961 OS 1:25,000 which can be helpful for identifying lost habitats.



The satellite image gives a better idea of whether you will have a ploughed field or grassland etc.



You can add geological overlays to the Cucaera maps. This shows the surface “drift”.

SJ432143:

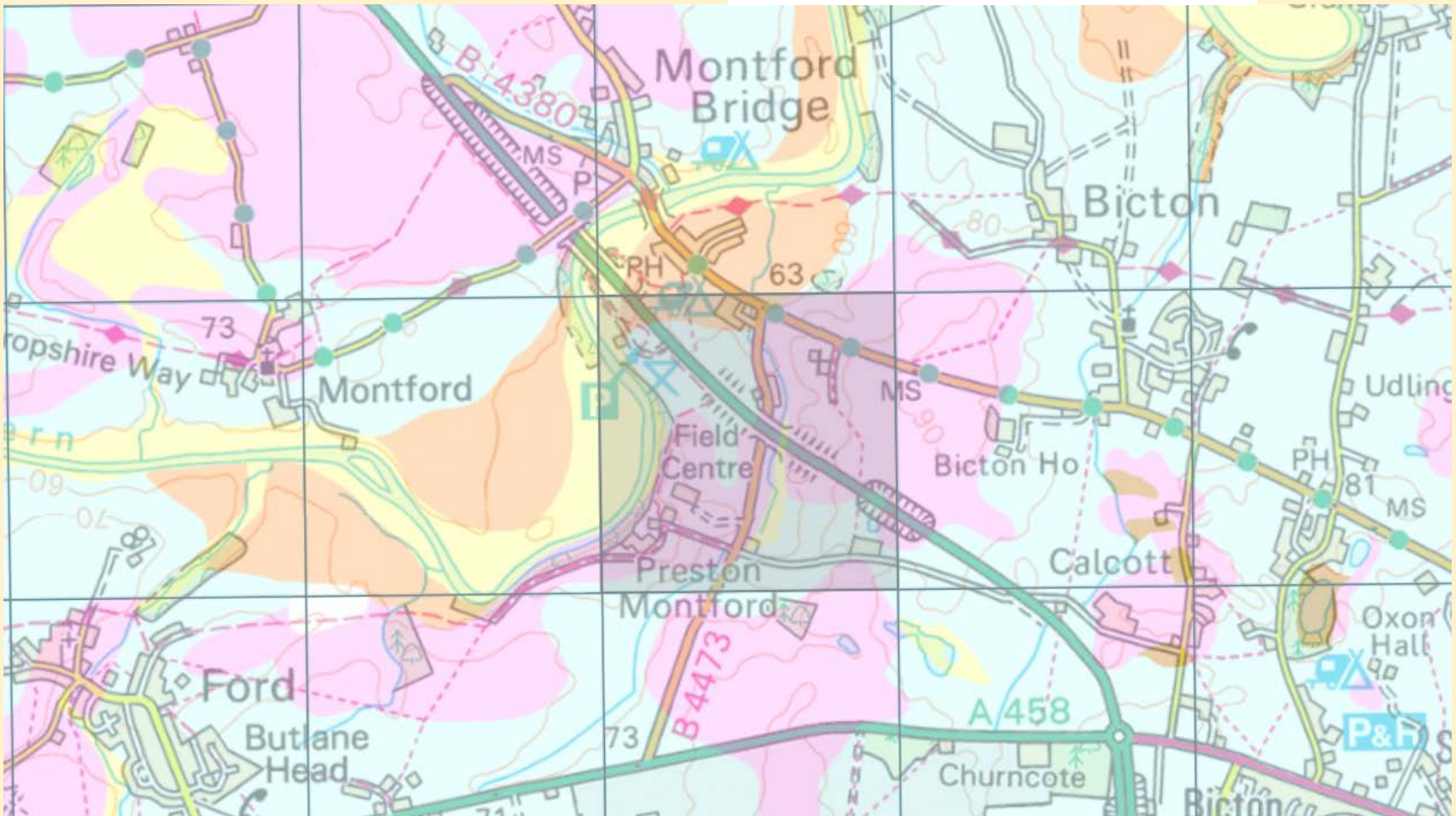
Montford Bridge (SY4 1HW)

Elevation: Ⓞ 69 metres (226 feet)

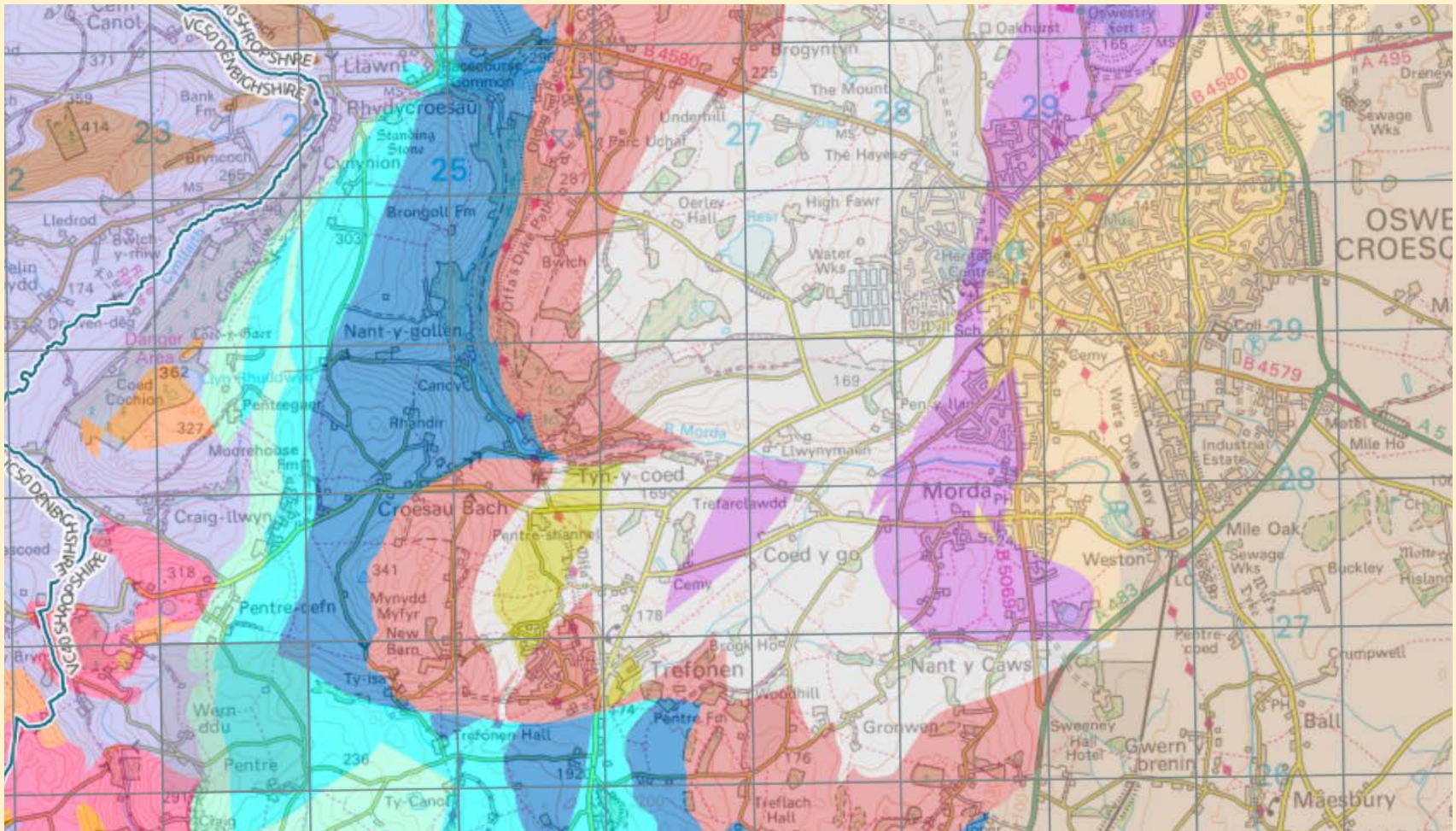
Superficial Deposit: Ⓞ Glaciofluvial Deposits, Devensian

Bedrock: Ⓞ Kinnerton Sandstone Formation

[VC40 Shropshire](#)



The area to the west of Oswestry has more varied bedrock geology, with limestones in the west and sand and mudstones to the east.



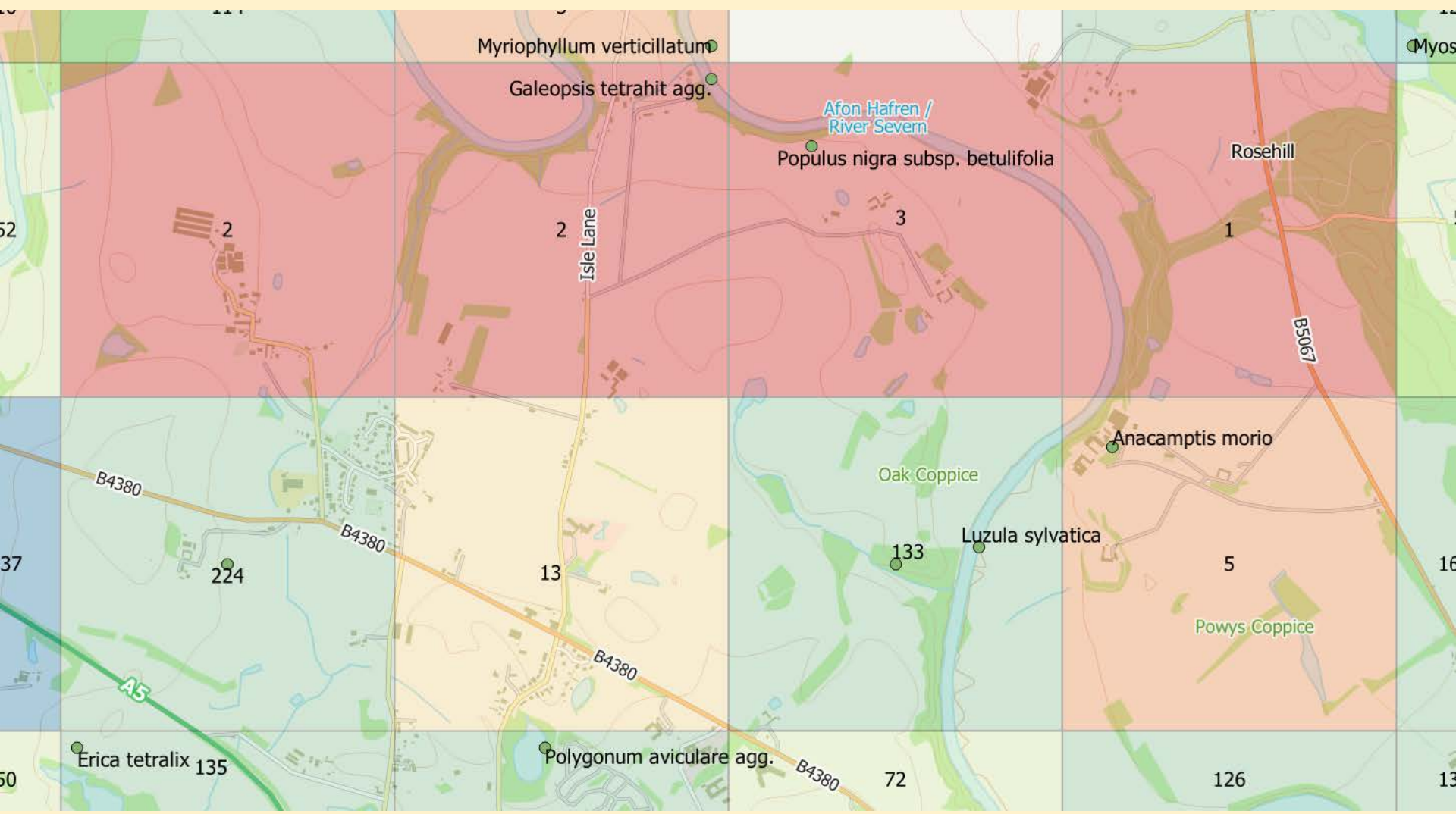
Open Street Map (OSM) <https://www.openstreetmap.org> can be more useful in towns as it often shows small paths and other features



Particularly when zoomed in



When planning an excursion it can be helpful to start at an easily findable point. This map shows the number of recent records per monad in the area east of Preston Montford, along with some “LORE” species.



Churches are easier to find, so here you might start at Bicton church, even though the monad is well recorded. Then use the 1:25,000 map to navigate around the public footpaths.

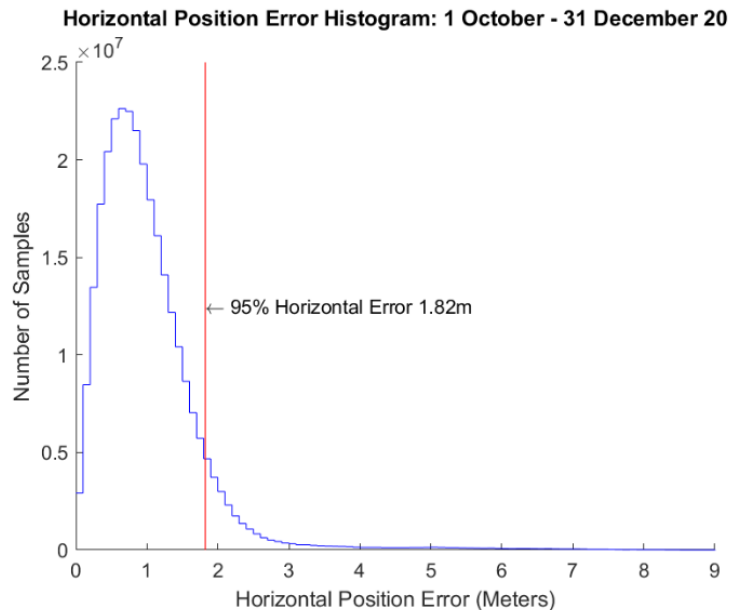


Precision vs accuracy

Most GPS units automatically give 10 figure (= 1 metre) precision (eg SJ43297 14356), however they are rarely accurate to this precision and are sometimes only accurate to 6 figures (= 100 metres) (eg SJ 432 143). Under good conditions with a top end GPS unit the best you can do is about 2m.

Global Positioning System Standard Positioning Service Performance Analysis Report

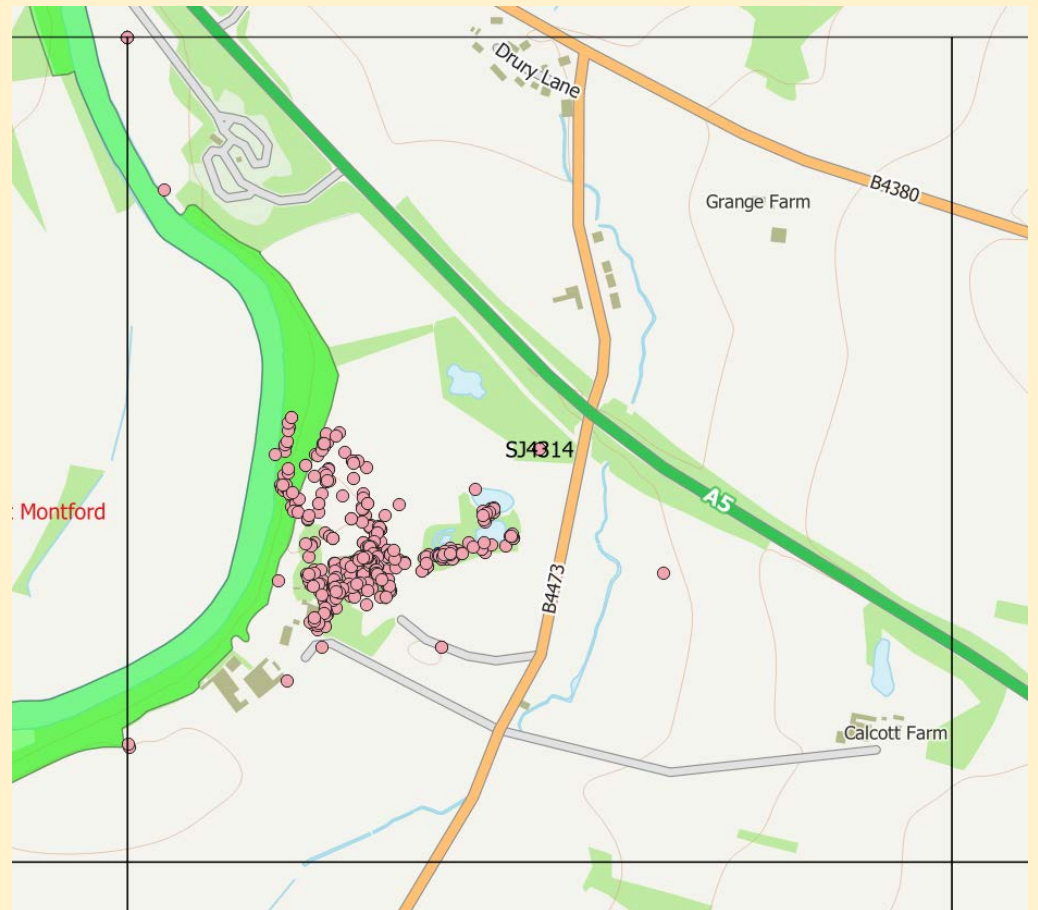
Figure 5-2 Global Horizontal Error Histogram



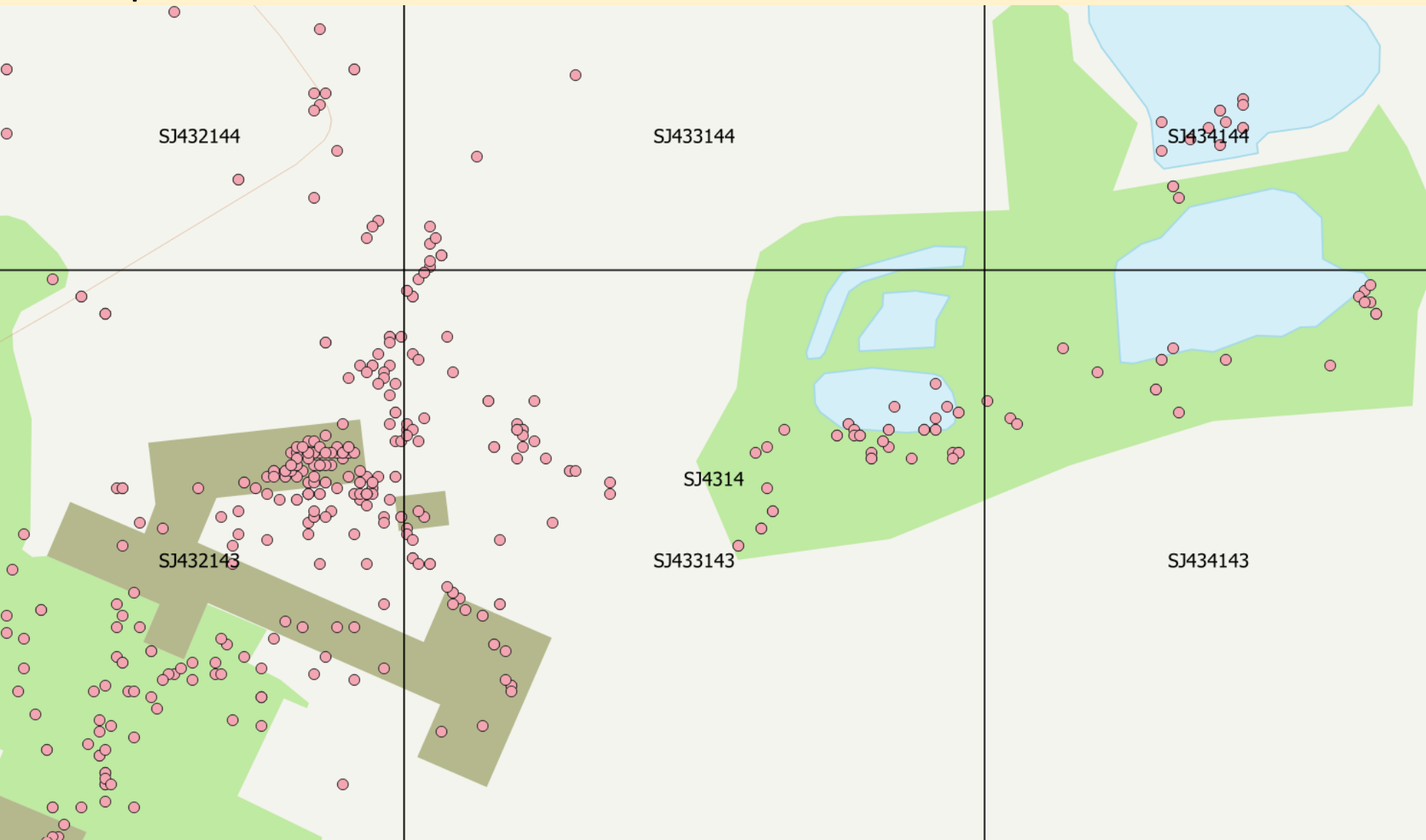
Conditions are rarely good:

- Trees, buildings etc can block the signal
- The satellite constellation can be in a poor configuration
- Earth has an atmosphere and an ionosphere that distorts signals

A very expensive differential GPS (one that uses a local fixed position as a reference) can give very accurate positions (cm), however even here it can be affected by trees, buildings etc. We trialled the BSBI Recording app at last year's meeting. At monad level the positions mostly look good.



However there are small positional errors. The bottom line is that only 8-figure grid references should normally be used. Even then, don't expect to get back to the precise position of a rare plant – give a verbal description of where it was as a comment.



A wide-angle photograph of a quarry or construction site. The landscape is dominated by light-colored, rocky terrain with patches of green vegetation. A winding dirt road or path leads through the site. In the center, there is a concrete drainage structure with a series of parallel channels. The background shows a high, rocky cliff face with some trees growing on top. The sky is overcast and grey.

Site names

Designated sites may have a plethora of styles, which vary from county to county and there may also be designations for wider areas. Here are a few:

- SSSI – Site of Special Scientific Interest, which may be divided into units that don't always correspond to management units
- LWS – Local Wildlife Site
- CWS – County Wildlife Site
- CiWS – City Wildlife Site
- PRV – Protected Road Verge
- SRV – Special Roadside Verge
- RNV – Roadside Nature Reserve
- LNR – Local Nature Reserve
- LGS – Local Geological Site

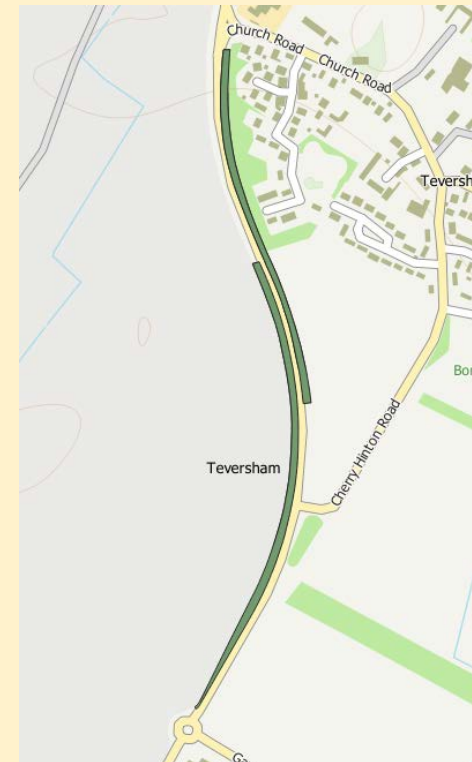
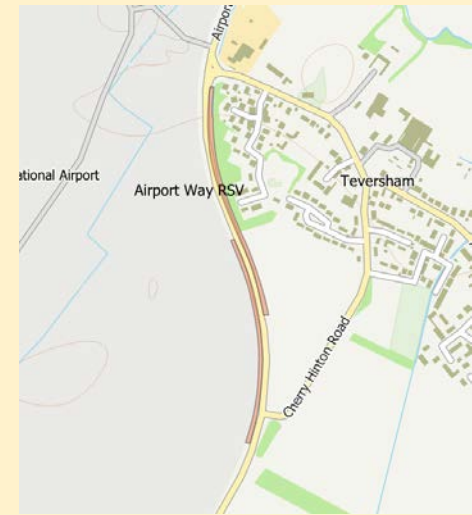


Right : We visited The Cliffe LWS last year

Example 1

- Airport Way RSV – LERC site name
- Teversham – Council site name
- PRV S38 Teversham – WT survey name
- Teversham RSV 89/45 Airport Way, TL494586
- Teversham RSV 89/45 Airport Way
- Teversham, PRV S38 east – VCR records name
- Teversham, PRV S38 west

None of the names mention CWS
The PRV and CWS boundaries are different





Example 2

A site with PRV, LNR, CiWS, CWS and SSSI designations. It is also an LGS

Example 2



SSSI



CWS



LNR

Example 2

Site names in TL4855 include



CiWS



PRV

- Cherry Hinton Chalk Pit
- Cherry Hinton East Pit
- Cherry Hinton Pit SSSI
- Cherry Hinton Pits
- Cherry Hinton RSV 89/06
- Cherry Hinton RSV 89/07E
- Cherry Hinton RSV 89/07W
- Cherry Hinton West Pit
- East Pit
- Lime Kiln Hill Reservoirs CWS
- Lime Kiln Road
- Lime Kiln Road Verge (SSSI section)
- Lime Kiln Road Verge and Hedge CiWS
- PRV C1 Lime Kiln Hill
- PRVs C1 and C2 Lime Kiln Hill
- West Pit

Example 2

Lime Kiln Close is (mostly) in TL4856 and is variously named:

Cherry Hinton Lime Kiln Close
Lime Kiln Close
Lime Kiln Close LNR

There is no mention of the CWS designation

All records are supposedly in TL4856



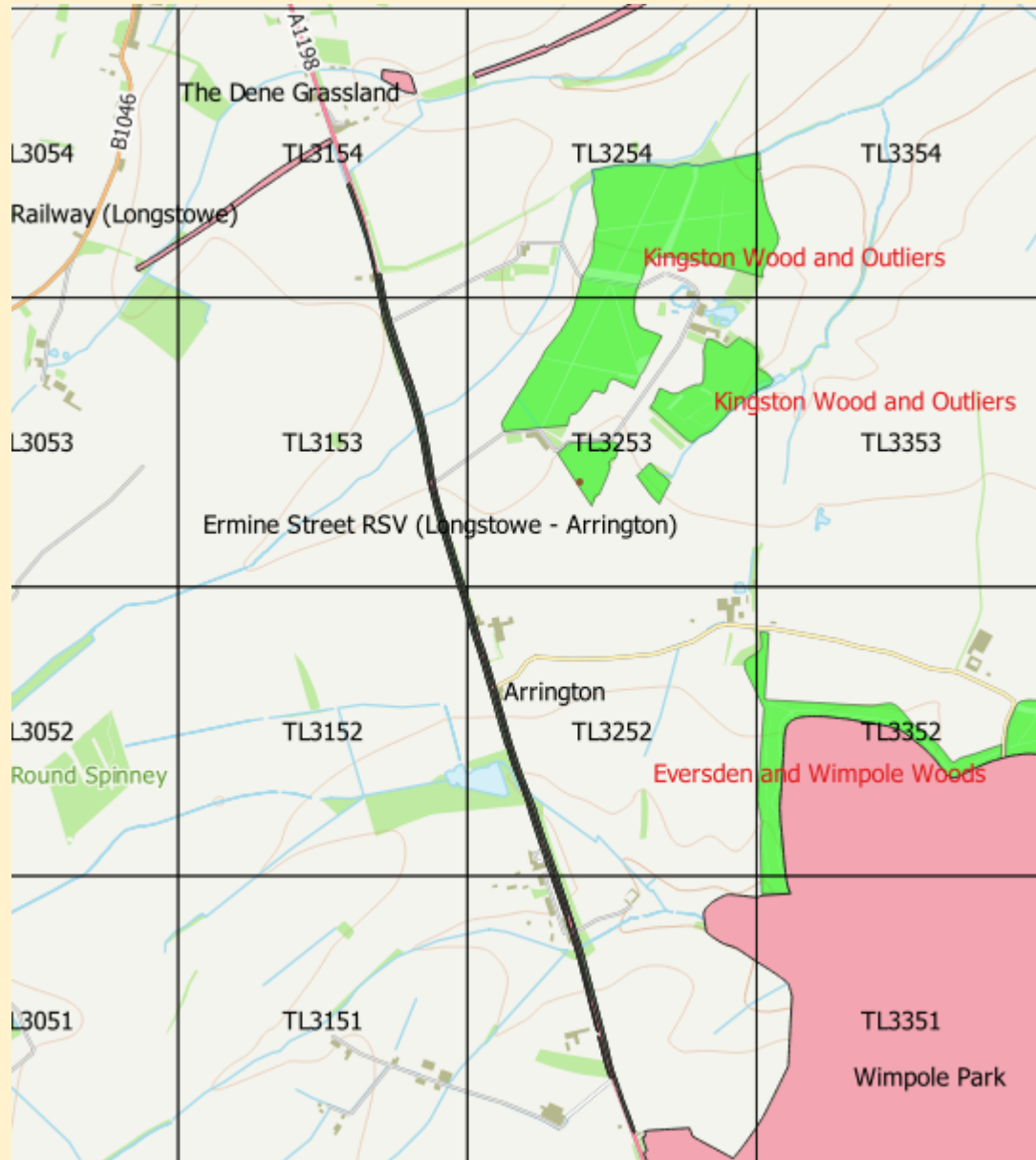
West Pit

Example 3

- Ermine Street PRV S53
- Ermine Street RSV (Longstowe - Arrington)

In this case the designated length of PRV and CWS is the same. The CWS is not mentioned in any of the records.

ALL records for Ermine Street RSV (Longstowe - Arrington) were put in TL3252



Site names matter

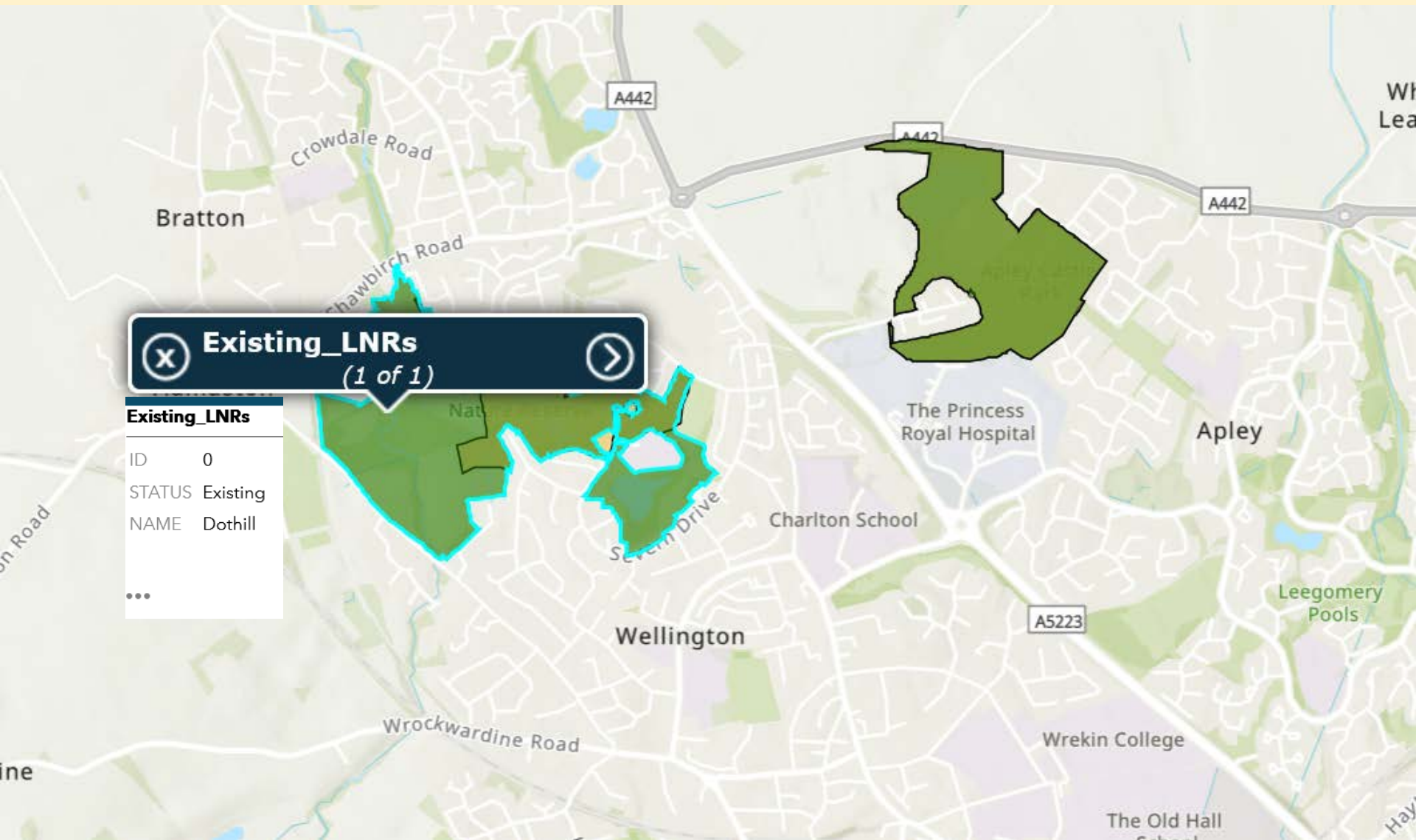
Is a rare plant in a designated site or not?

An analysis of records attempting to compare the flora of PRV, LNR, CiWS, LWS and SSSI would struggle.

A first step would be to make site names and boundaries more widely available.

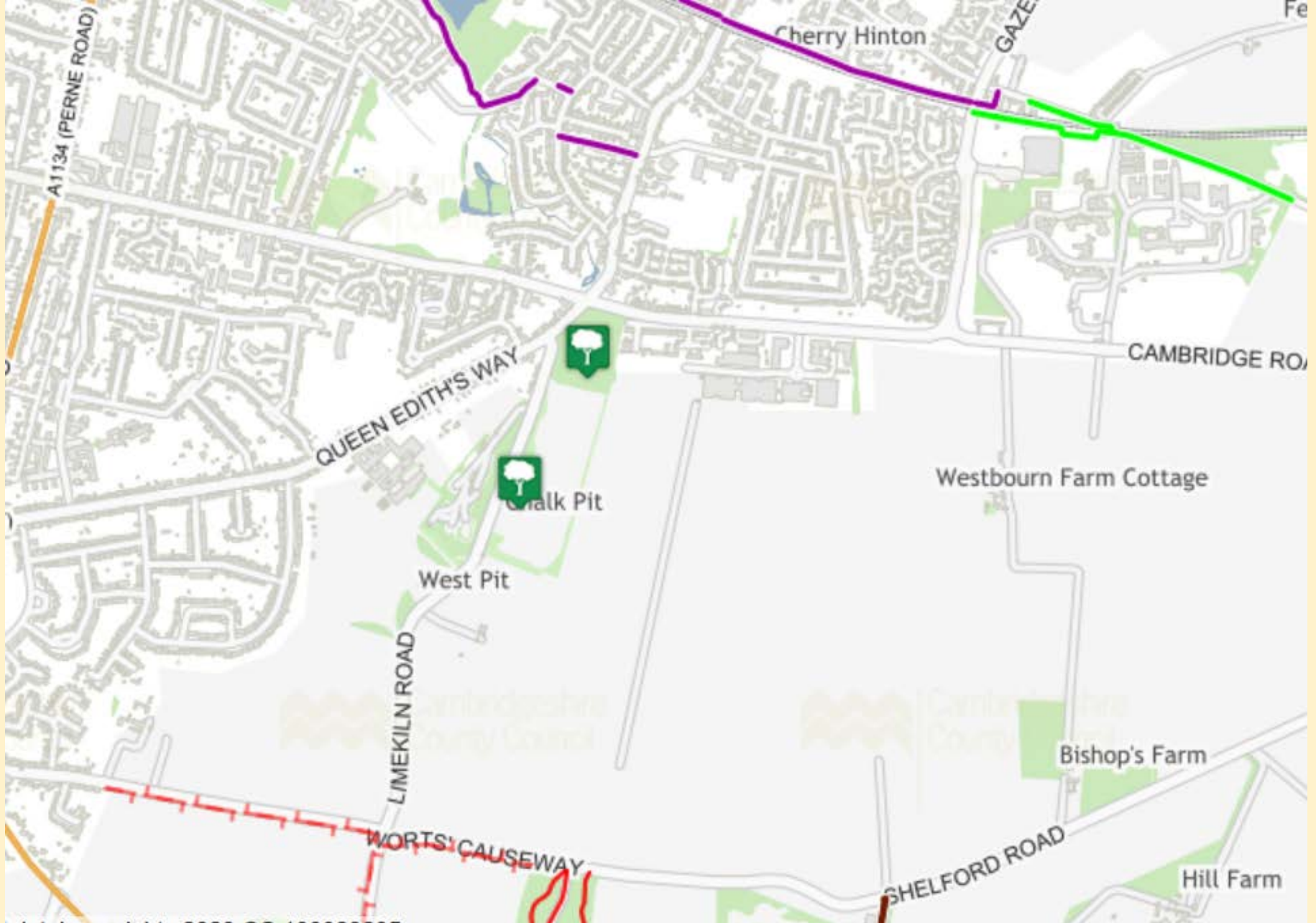
Images: A Cambridge CWS and a Cambridge CiWS



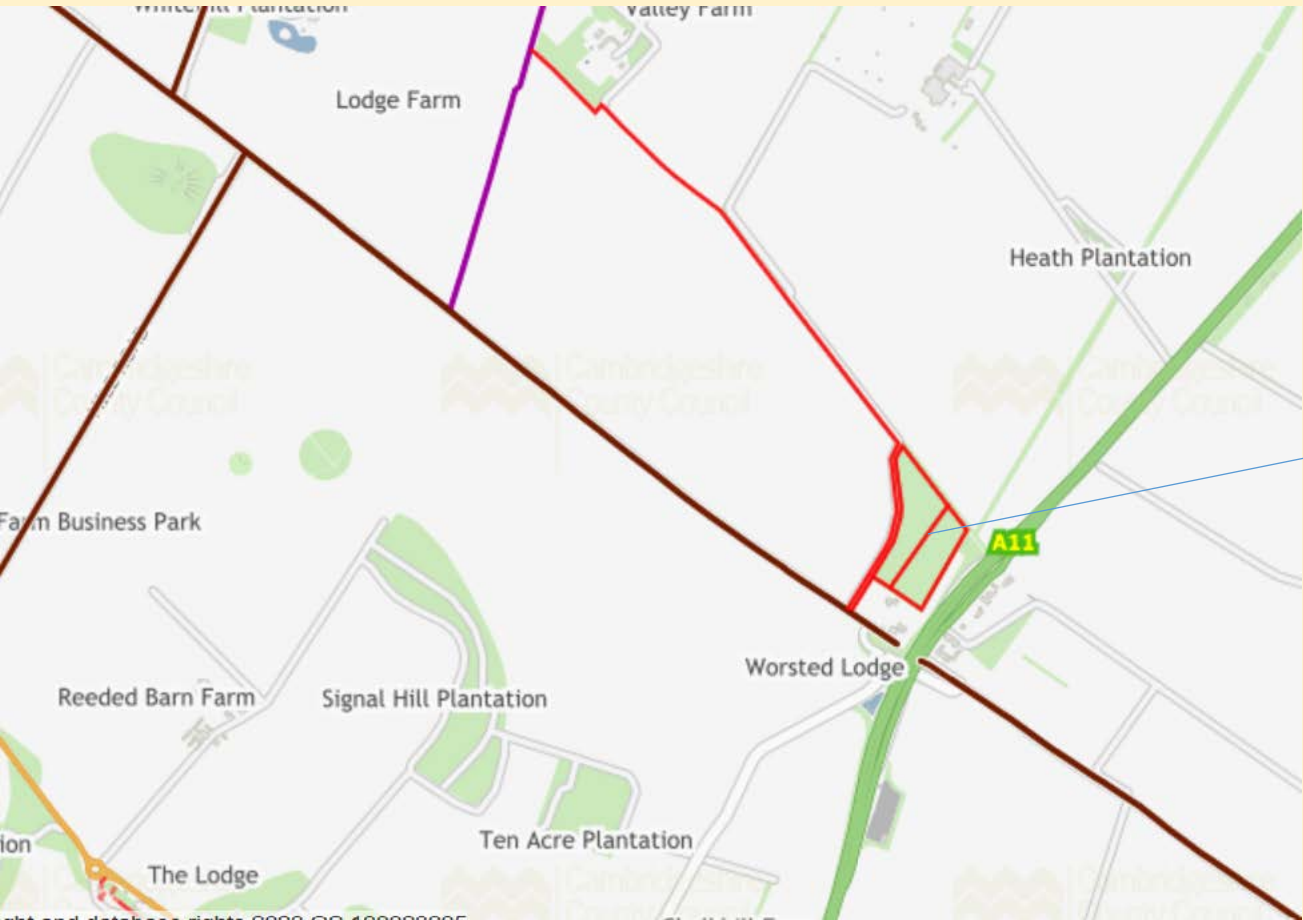


Telford LNR sites

<https://telford-gis.maps.arcgis.com/apps/webappviewer/index.html>



Cambridgeshire has
<https://maps.cambridgeshire.gov.uk/myCambridgeshire.aspx>



Megs Mount –
potential CWS

<https://maps.cambridgeshire.gov.uk/myCambridgeshire.aspx>
does include permissive paths

SEDN Under-recorded Sites

Find address or place

0.6km
366,889.893 309,428.154 Meters

SEDN Under-recorded Sites: Lawley	
NAME	Lawley
THEME	Priority habitat
area_ha	15.61
Access	unknown
habitat	Lowland mixed deciduous woodland
...	

Shropshire Environmental Data Network viewer

<https://shropshire.maps.arcgis.com/apps/webappviewer/index.html>

Some suggestions

It should be possible for any recorder to easily find out what the site boundaries and site names are and also convey this information in records.

- We should have an interactive map similar to the Shropshire one (but ideally better) showing site boundaries and names etc.
- There should be a naming convention to clearly identify what part of a site is being recorded. This should include site name, designation(s) and where appropriate management unit. Possible examples
 - Fulbourn Fen SSSI, East Fen
 - Teversham, Airport Way PRV S38 E,
 - Teversham, Airport Way PRV S38 E, CWS
- Records should not be assigned to a site centroid if it covers more than one monad.

Record entry

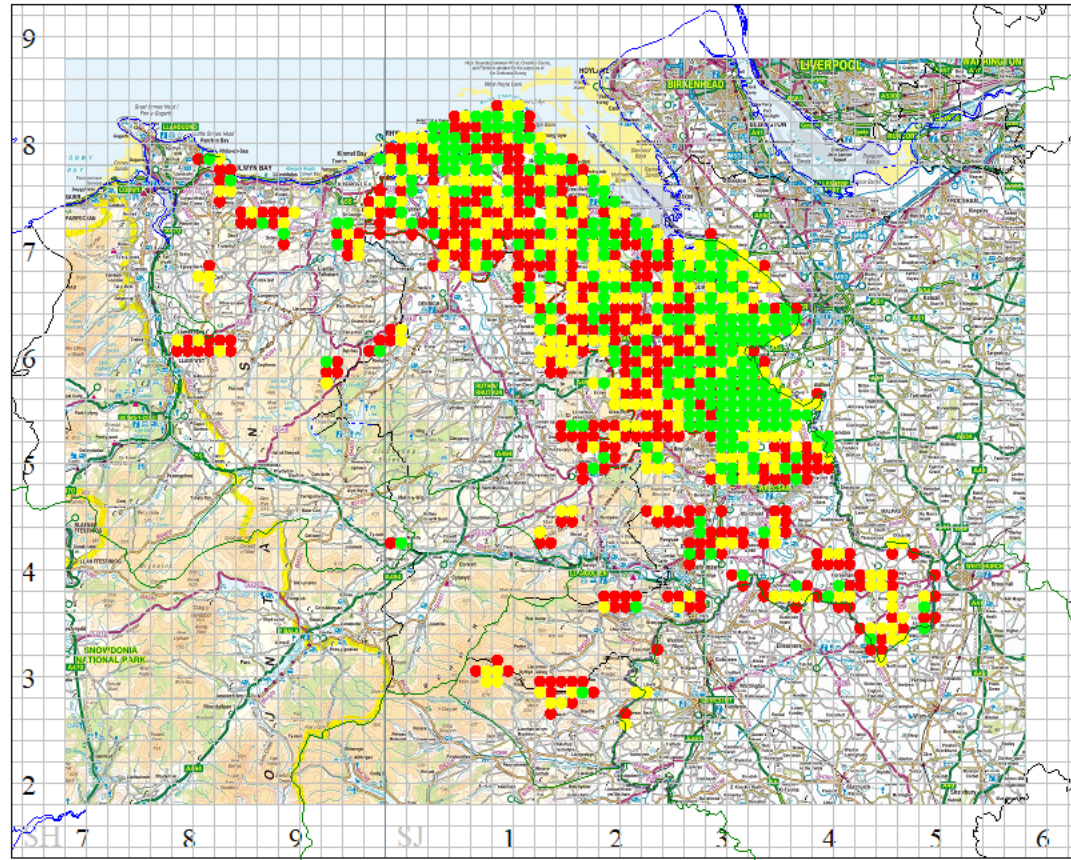
VCRs use a variety of systems to log records. These may include:

- MapMate – historically the main BSBI system
- Recorder – a nationally supported system
- Locally developed databases
- Spreadsheet based systems
- The DDb (particularly for records not in MapMate)
- iRecord etc
- BSBI Recording app

There are pros and cons for all these.

In future we will probably use the BSBI Recording app.

VC50 and 51 monad density



The BSBI Recording app and other apps



Record a plant

Add a one-off find quickly.

Resume survey

Continue Royston TL3341 2024-03-21

Start a new survey

Enter records for a single site.

Add a set of casual records

Enter a mixed set of records from several locations or dates.

If the weather is good we will give the app a quick try. If not we'll just look at some of the features. Note that the app is still under development.

Record a plant : often useful for the odd record sent in by email, or for something that isn't in the MapMate taxon list

Add a set of casual records : this is more or less the same thing

The screenshot displays the MapMate app interface, divided into two main sections: a list of records on the left and an occurrence form on the right.

Left Panel: Set of casual records

- Header: Set of casual records (with a dropdown arrow)
- Section: Your plant records (with an upward arrow)
- Buttons: + new record (green), #, A-Z
- Records list (each with a trash icon):
 - (unnamed plant)
 - (unnamed plant)
 - Viola odorata* f. *lilacina*
 - Viola odorata* f. *lilacina*
 - Ranunculus auricomus* L. "**Goldilocks Buttercup**"
 - Salvia coerulea* Benth.
 - Picea breweriana* S.Watson "**Brewer Spruce**"
 - Ophioglossum lusitanicum* L. "**Least Adder's-tongue**"
 - Colchicum speciosum* Steven

Right Panel: Occurrence form

- Search: grid-reference (with a search icon and a GPS icon)
- Search for a taxon: (text input field)
- Recorders: full name (text input field)
- determined by: (dropdown menu) full name (text input field)
- Place-name: (text input field)
- Vice-county: Assign automatically (dropdown menu), West Cornwall, East Cornwall, South Devon (dropdown menu)
- Date: 01 / 04 / 2024 (with a calendar icon)
- (optional) please provide a photo: Browse... No files selected. photos (with a camera icon)
- Status: Not recorded (dropdown menu)

Survey: can either be done live on your phone or later from a record card.

Survey: Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve SJ2868 yesterday

Recorders
Shanklin, Jon

Place-name
Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve

Survey grid-square
SJ2868

Survey sample unit
Monad (1km square)

Vice-county
Flintshire

Date
31 / 03 / 2024

Survey date, that will be assigned to all records from this survey.

Is this a comprehensive survey?
A 'complete' survey, including all occurrences

Locality notes

Survey comments

Grid-square based recording.

Use this type of survey for structured coverage of a grid-square or site. Occurrences will be assigned to the specified square name and square but can be given more precise grid-references individually.

The square size can be set using the 'survey sample unit' field. If tetrad (2km) is selected then occurrences can be assigned to a monad sub-division using the occurrence toolbar menu.

Recorder names

Please list at least one individual primary recorder.

track

Survey: Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve SJ2868 yesterday (14 records)

Search for a taxon

- Carex pendula Huds. "Pendulous Sedge" SJ2868
- Carex acutiformis Ehrh. "Lesser Pond-sedge" SJ2868
- Cardamine flexuosa With. "Wavy Bitter-cress" SJ2868
- Caltha palustris L. "Marsh-marigold" SJ2868
- Brachypodium sylvaticum (Huds.) P.Beauv. "False Brome" SJ2868
- Blechnum spicant (L.) Roth "Hard-fern" SJ2868
- Asplenium scolopendrium L. "Hart's-tongue" SJ2868
- Arum maculatum L. "Lords-and-Ladies" SJ2868
- Anthriscus silvestris (L.) Hoffm. "Cow Parslev" SJ2868

Details of plant

Cardamine flexuosa

SJ2868

Status: Not recorded

regenerating

Abundance: count

Stage: open flowers

Most mature phase that is present.

Habitat: other (free-text)

determined by: identifier (optional)

attribute name

Notes

Photos: Browse... No files selected.

search for Records (specimens or observations)

taxon ✕ +
 grid reference ✕ +
 county/region ✕ +
 date recorded equals ✕ +
 recorder broad match ✕ +
 checklist/linked attribute ✕ +
 bounded area include this area ✕ +
 place name broad match ✕ +
 project workspace ✕

[more options](#)

Current search-form filter
 records where Records from project 'BSBI Recording App' and recorded on 31/3/2024 and vice-county: VC51 and compared with main DDb workspace

[reset search form](#)

[help...](#)

14 records matched your query.

<input type="checkbox"/>	<input type="checkbox"/> record	<input type="checkbox"/> taxon	recorder	<input type="checkbox"/> vc	locality	grid ref	date	<input type="checkbox"/> status
<input type="checkbox"/>	not transferred	Chrysosplenium oppositifolium	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	
<input type="checkbox"/>	not transferred	Chelidonium majus	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	
<input type="checkbox"/>	not transferred	Carex pendula	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	
<input type="checkbox"/>	not transferred	Carex acutiformis	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	
<input type="checkbox"/>	not transferred	Cardamine flexuosa	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	
<input type="checkbox"/>	not transferred	Caltha palustris	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	
<input type="checkbox"/>	not transferred	Brachypodium sylvaticum	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	
<input type="checkbox"/>	not transferred	Blechnum spicant	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	
<input type="checkbox"/>	not transferred	Asplenium scolopendrium	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	
<input type="checkbox"/>	not transferred	Arum maculatum	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	
<input type="checkbox"/>	not transferred	Anthriscus sylvestris	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	
<input type="checkbox"/>	not transferred	Anemone nemorosa	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	
<input type="checkbox"/>	not transferred	Alliaria petiolata	Shanklin, Jon	VC51	Connah's Quay Ponds and Woods SSSI, Broadoak Wood Nature Reserve	SJ2868	31/3/2024	

iRecord : supported by the Biological Records Centre.



<https://irecord.org.uk/>

Home

Record ▾

Forum

Help ▾

Welcome to iRecord...

... a site for managing and sharing your wildlife records.

Home

- Not just plants, so good if you record multiple taxa
- No transfer of botanical records for several years
- VCRs may act as verifiers



Photo © Pete Boardman

The goal of iRecord is to make it easier for wildlife sightings to be collated, checked by experts and made available to support research and decision-making at local and national levels. Join iRecord now to share your sightings with the recording community, explore dynamic maps and graphs of your data and make a real contribution to science and conservation.

Please log in or [register](#) to get started. You can submit records without logging in, but many of the site's facilities will not be available unless you are logged in.

[How to use iRecord](#)

[Find out more](#)

Other apps

iNaturalist : <https://www.inaturalist.org/> USA based recording/id app. Allows pseudonyms and id not always reliable.

Obsidentify : <https://observation.org/apps/obsidentify/> Dutch based, but pretty good for identification. Use as a pointer for further checking using id key.

Other resources : <https://bsbi.org/resources>



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ObsIdentify

Recognize nature in one click!

Keep your photos and observations organized with the app and website. You will be rewarded with tailor-made tips to find species, earn badges and are invited to participate in challenges. Your observations and those of others contribute to knowledge of nature. Thus, your observations and those of others are part of research into these species. Every observation counts!

ObsIdentify only recognizes wild animals and plants. Do not use the app for selfies, people, pets, house or garden plants.



Recording cards

- There is a BSBI card for every county. These use Stace III names. They are based on the frequency of records in the county, rather than the frequency of species, so often include species that have become scarcer.
- Some counties have developed their own cards. These may use Stace III or Stace IV names.
- Few use common names
- Some recorders use a notebook and write down names
- Some recorders use a notebook and write down BRC numbers

Advantages of cards

- Easier to read in sunlight
- Quick to cross off names
- Easy to see what you haven't (yet) recorded
- Can be waterproof

There are BSBI cards for every county

Optimised for the Vice County of Shropshire (40)

3	Acer can	254	=ap	522	vul	810	Fagus syl	1063	con	1307	Molin cae	1546	Polya acu	1742	criap	2032	Tamus com
4	pla	256	Beris med	525	Clayt per	1527	Falio con	1067	eff	1312	Monti fon	1548	set	1745	hyd	503	Tanac par
5	psa	272	Bromo ram	524	alb	1528	jap	1070	inf	1315	Mycol mur	1549	Popul alb	1748	obt	2033	vul
7	Achil mil	269	Bromo hor	528	Clema vital	822	Festa ovi	1075	agu	1317	Mycol arv	4313	nig	1753	san	2034	Tarax*agg
9	pta	276	Bryon dio	530	Clino vul	824	*rub	1084	Knaut arv	1321	disco	1553	nig 'Ita'	2464	x pra	2039	Taxus bac
2985	Aconi x sto	277	Buddl dan	533	Cochl dan	1649	Ficar var	1091	Labur ana	1319	law	1555	tes	2559	Sagin apa	2041	Teaed nud
19	Adowa mos	288	Butom umb	538	Colch aut	833	Filip ulm	1094	Lactu sar	1322	aco	1550	x cana	1767	pro	2046	Teucr scopo
20	Aegop pod	289	Buxus sam	1592	Comar pal	838	Fraga var	862	Landa gal	1323	sec	1559	Potam her	1784	Salix alb	2058	Thlas arv
2241	Aescu hip	2249	Calli*agg	540	Coniu mac	839	Frang ain	2667	gal arg	1325	syl	1563	cri	1788	cap	2403	Thuja pli
21	Aethu cyn	307	*ata	541	Conop maj	841	Fraxi sar	1098	Landu alb	1326	Mycol acu	1570	nat	1789	cin	2060	Thymu pol
22	Agrim eup	309	Callu vul	544	Convoc arv	850	Fumar muc	1099	amp	1331	Myelo api	1574	pec	1793	fra	2063	Tilia cor
35.2	Agroes can	310	Calth pal	735	Conyr can	854	off	1103	par	2614	Narci*agg	1576	pol	1805	vim	2065	x euro
40	cap	311	Calys sep	548	Coenu san	860	Galan niv	1104	Lapas com	1343	psa	1583	Potan ang	2342	x reich	2069	Toeil jap
36	gig	313	ail	557	Coryl ave	864	Galao bif	1105	Larix dec	1344	Nardu str	1584	ana	2351	x smith	2074	Trago pra
39	sto	322	Campa rot	4526	Coton*agg	869	tet	2302	Kaa	1345	Narth asa	1588	ere	1815	Sambu nig	2080	Trifo can
35.1	vin	323	tra	2423	Craae hel	879	Galli alb	2303	x mar	1347	Nastu off	1594	rep	1819	Sanic eur	2081	dub
41	Aira car	325	Capae bur	569	Crata mon	873	apa	1107	Lathr acu	1173	Neott ova	1596	sta	1830	Saxif gra	5459	hab
42	pra	327	Carda ama	572	Crepi cap	183	odo	1112	Lathy lin	1356	Nupha lot	5442	Potar san	813	Sched arv	2087	med
46	Ajuga rep	328	fia	578	ves	882	pal	1116	pra	1358	Nymph alb	1605	Primu var	816	gig	2091	pra
4480	Aloche fil	329	hir	875	Cruci lae	878	sax	1126	Lawna minor	1361	Odont var	1607	vul	823	pea	2092	sep
2255	mol	331	pra	592	Cymba mur	887	uli	2300	minut	1362	Oenan aqu	1606	x pol	1851	Schoe lac	2097	stria
60	xan	335	Cardu cri	597	Cynos cri	888	verum	1128	tri	1363	cro	1610	Pruno vul	1861	Scirp syl	2102	Trigl pol
63	Aliam pla	337	nut	1822	Cytis sco	907	Geran dia	1130	Leont his	1377	Ononi rap	1611	Pruno avi	1129	Scorp aut	1241.1	Tripl lno
64	Allia pet	341	Carax acuti	607	Dacty glo	909	luc	1131	sax	1381.2	Ophio vul	1612	cer...ra	1865	Scrop aur	2105	Trise fla
75	Alliu usa	350	bin	608	Dacty fuc	911	mol	552	Lapid cor	1387	Orchi ma	1614	dom	1867	nod	2404	Teuga hat
77	Alnus glu	355	car	610	mac	914	pra	551	did	2051	Oreop lim	1615	lau	1872	Scuta gal	2109	Tussil far
82	Alope gan	361	demis	612	pra	916	pua	1139	het	1393	Origa vul	1616	pad	1875	Sedum sar	2111	Typha lat
85	pra	370	ech	1915	Danth dec	917	pyr	502	Lauca vul	1397	Ornit per	1617	api	1876	alb	2112	Ulex eur
99	Anaga arv	376	fiac	617	Daphn lau	918	rob	2250	Ligus ova	1413	Oxali ace	556	Pseud lut	1881	rup	2113	gal
100	tan	381	hir	5474	Daucu car	924	Gemr riv	1144	vul	1426	Papav dub	1618	Pseud man	1891	Seneo acu	2119	Ulmus gla
1218	Anchu arv	397	lepor	627	Desch oes	925	urb	1160	Linar pur	1430	cho	1619	Pseud acu	1896	eru	2122	proc
105	Anemo nam	398.2	mur pai	628	fia	931	Glech had	1164	vul	1431	som	1625	Pulic dya	1899	jac	2125	Umbil rup
109	Angel syl	399	nig	640	Digit pur	932	Glyce dec	1169	Linum cat	1435	Paria jud	1628	Pulmo off	1902	agu	2126	Urtic dio
113	Anisa ste	396	otr	646	Dipaa*ful	933	flu	1182	Loliu mul	1436	Paria qua	1635	Queer car	1903	syl	2128	usa
121	Ancho odo	399	pal	647	pil	934	sax	1183	per	1442	Pedic syl	1638	pet	1904	vla	2136	Vacci Myr
125	Anchr syl	400	panicae	657	Droae rot	936	not	1188	Lonic per	1443	Penta sam	1640	rob	1905	vul	2139	Valer dio
132	Aphan arv	401	panicula	662.1	Dryop aff	941	Gnaph uli	1191	Lotus cor	1521	Peaal amph	1639	x nos	1912	Shera arv	2140	off
133	rus	404	pen	666	car	952	Heder hel	1194	ped	1525	bia	1642	Ranun acr	1639	Silen dio	2145	Valer loc
137	Apium nod	405	pil	661	dil	968	Herac sph	1195	Lunar ann	1530	hyd	1645	aur	1210	fio	2157	Verba tha
141	Aquil vul	407	psa	665	fil	975	Heape mat	1201	Lurul cam	1531	lap	1647	dul	1258	lat	2161	Veron agr
142	Arabid lath	408	pul	675	Eleoac pal	2560	Hiera*agg	1204	mul	1537	mac	1651	fia	4578	vul	2165	arv
151	Arcti tap	412	ram	681	Elode can	983	Holcu lan	1207	pil	1447	Petas hyb	1653	hed	1260	x Nam	2166	hec
150	*min	413	rip	997	nut	984	mol	1209	syl	1454	Phala arv	1655	lin	1933	Sinap arv	2168	cha
162	Avena sar	414	ros	7006	Elym can	992	Horde mur	1219	Lycop eur	1461	Phileu bar	1654	omi	1938	Sisyp off	2169	fil
167	Aemor rus	357	api	33	Elytr rap	995	Hotto pal	1221	Lysim nam	1463	pra	1643.2	pel	1947	Solan dul	2171	hed
169	Aerhe ela	420	str	688	Epilo cil	996	Humal lup	1222	num	1465	Phrag aus	1660	sepens	1949	nig	2172	non
175	Aster vul	421	syl	692	hir	686	Hyaci his	1225	vul	1470	Picua abi	1663	aco	1951	Solid vir	2173	off
176	Arum mac	424	ves	695	mon	687	non	1444	Lythre por	2401	sit	5439	subg. Bat	1952	Sonch arv	2175	perx
185.1	Asple adi	427	Carli vul	696	oba	999	Hydro vul	1227	sar	4516	Pilos aur	5481	Rapha rap	1953	asp	2176	peu
192	rut	428	Carpil bet	697	pal	1003	Hypar and	1228	Mahon acu	976	off	1673	Rasad luteola	1954	ole	2179	acu
1466	sco	432	Casta sat	698	par	1010	Hierac	1230.1	Malus pum	1476	Pimpi sax	1678	Rhina min	1960	Sorbu auc	2180	ser
194	tri	444	Centa nig	7292	tet	1011	hum	1230	*syl	1482	Pinnu nig	1687	Rhodo pon	1977	tor	2185	Vibur opu
211	Athyrs fil	5486	Centa ery	705	Epipa hel	1006	mac	1232	Malva mos	1484	syl	1694	Ribae nig	1983	Spang ema	2189	Vicia cra
218	Atrip pat	455	Centr rub	712	Equis arv	1014	per	1236	syl	1485	Plant cor	1696	rub	1981	ere	2191	hir
214	pro	467	Caesae fon	713	flu	1015	pul	1239	Matei cha	1487	lan	1697	uva	1987	Speng arv	2516	sat
220	Avena fat	466	glo	717	pal	1016	tet	1242	dia	1488	maj	1703	Rorip pal	1992	Speng rub	2198	sep
225	Ballo nig	469	am	720	syl	1005	x dsa	1246	Macon cam	1490	mad	1704	syl	2001	Stach arv	2199	syl
229	Bacba vul	555	Caesat cla	721	tel	1020	Hypoc rad	1250	Nedio lup	1495	Poa ann	1707	Rosa arv	2003	pal	2202	tet
231	Balli per	471	Caesat dan	731	Erica tet	1023	Ilex acu	1256	Malam pra	1499	com	1709	can	2005	syl	2204	Vicia maj
234	Berul ere	476	Chaei ten	740	Berop ang	1026	Inpat gla	1263	Malle uni	1506.5	hum	1708	*can	1999	x amb	2205	min
237	Beton off	2398	Chama law	744	vag	1030	Inula sat	1272	Manth acu	1506	nam	1718	she	2007	Stall ala	2206	Viola arv
239	Betul pan	477	Chama ang	745	Erodiovic	1036	Iris foe	1273	arv	1506	*pra	3395	Rubus das	2009	gra	2210	hir
240	pub	480	Cheli maj	4342	Eroph var	1038	psa	1285	spi	1507	tri	1728	*fru	2010	hol	2212	lut
241	Bidan cer	482	Cheno alb	762	Buony eur	1047	Isalle sat	1286	x var	1514	Polyg sar	1729	ida	2012	ned	2214	odo
242	tri	496	rub	763	Bupat can	1048	Jsasio mon	1289	Manya tri	1515	vul	3673	tube	2013	neg	2215	pal
243	Black per	505	Chrys alt	764	Bupho amy	1049	Jugla sag	1291	Marcu per	1520	Polyg ar...rum	1732	ulm	2021	Succi pra	2217	sai
244	Blech spi	506	opp	772	hal	1050	Juncu acetif	1291	Miliu aff	1523	avi	3679	veat	2022	Symph alb	2218	siv
250	Beach syl	513	Clara lut	774	lat	1054	art	4328	Mimul gut	1522	*avi	1734	Rumex acetosa	2024	Symph off	2220	tri
251	Bease nap	515	Clrai arv	777	peplus	1057.2	buf	1305	Moehr tri	1544.3	Polyp int	1735	acetosell	2025	x upl	2223	Vicia alb
252	nig	520	pal	2243	Euphr*agg	1058	bul	1306	Moeno ere	1544.2	vul	1741	conglo	2029	Syrin vul	2226	Valpi beo

Please cross through the species names only. *agg refers to aggregate species encompassing other taxa. Version 3b, 2011

I show common species with a ! and RPR species in bold

v.cc.29 & 31 (Cambridgeshire) record card for:

Grid reference

Acer com	!	Black pec	Clusia vit	Ficus var	Lepus com	!	Odont ver	Poter san san	Salix x fra agg	Thuja pli
Acer pla	!	Borag off	Clino vul	Ficus var fer	Lerax dec	!	Onotr glo	Prinu ver	Salix x rei	Tilia cor
Acer pae	!	Borag pin	Cochl dan	Ficus var var	Lethy pra		Onobr vic	Prinu vul	Salix x sep	Tilia pla
Achil mil	!	Borag xyl	Coniu mac	!	Legou hyb		Ononi rep	Prinu vul	Salix var	Tilia x eur
Aegop pod	!	Borag nop	Convo arv	!	Lenna gib		Onopo acc	Prinu svi	Sanbu nig	Toril arv
Aezou cor	!	Borag nig	Conyz can	!	Lenna min	!	Ophry api	Prinu seri	Sanbu nig	Toril jop
Aezou hip	!	Borag med	Conyz sum	!	Lenna minta	!	Origa vul	Prinu dom	Sapon off	Toril nod
Aethu cyn	!	Bromo ere	Cornu can	!	Lenna tri	!	Ornit umb can	Prinu leou	Scabi col	Trago por
Agrim eup	!	Bromo com	Cornu san aus	!	Leont his	!	Oroba ela	Prinu xpi	Sched eru	Trago pro
Agroz cop	!	Bromo com	Cornu san san	!	Galan niv	!	Oroba min	Sched lut	Sched gig	Trago pro min
Agroz gig	!	Bromo hor	Coryl ave	!	Galen tet	!	Oxali cor	Pecri aqu	Sched pra	Trifo can
Agroz xto	!	Bromo xac	Coton fra	!	Galiu alb	!	Oxali cor atr	Pocci dia	Sched lac	Trifo dub
Ajuga rep	!	Bromo xac agg	Coton hor	!	Galiu spa	!	Papav arg	Pulic dya	Schoe tab	Trifo fra
Alcea ros	!	Brayn dio	Cress hel	!	Galiu pal	!	Papav dub	Querc cer	Scorr sut	Trifo hyb
Alism lan	!	Buddi dav	Crota loa	!	Galiu ver	!	Papav dub agg	Querc ile	Scrop aut	Trifo pro
Alism pla	!	Bubon umb	Crota man	!	Gecan dia	!	Papav hyb	Querc rob	Scrop nod	Trifo rep
Allia pet	!	Buxus sem	Crota x med	!	Gecan mol	!	Papav lec	Ranun acc	Sedum acc	Tripl ino
Alliu vin	!	Calam api	Crepit hie	!	Gecan pra	!	Papav rho	Ranun aqu agg	Sedum alb	Trize fla
Alnus cor	!	Calam off	Crepit cop	!	Gecan pro	!	Papav som	Ranun aur	Sedum rup	Tritt ses
Alnus glu	!	Calli agg	Crepit vax	!	Gecan pyr	!	Pecri jud	Ranun bul	Senec eru	Tuxa far
Alnus inc	!	Calli xto agg	Croci lae	!	Gecan rob	!	Pecri xat	Ranun cir	Senec jac	Typha ang
Alopec gan	!	Calth pol	Cynba mur	!	Gecan rot	!	Penta sem	Ranun sepe	Senec squ	Typha lat
Alopec myc	!	Calys sep	Cynog off	!	Gem umb	!	Pecri amp	Ranun ace	Senec vis	Ulmus agg agg
Alopec pra	!	Calys sep sep	Cynos cri	!	Glech had	!	Pecri lep	Ranun tri	Senec vul	Ulmus gla
Anara bou	!	Calys xil	Dacty fuc	!	Glyce flu	!	Pecri mac	Rapha rap	Senec arv	Ulmus min
Anaca pyr	!	Capoa bur	Dacty glo	!	Glyce max	!	Petro seg	Rezed lut	Silen cor	Ulmus pro
Anaga arv	!	Carde fla	Daphn lau	!	Gnaph uli	!	Phaco tan	Rezed luto	Silen dio	Ulmus x veg
Anemo nem	!	Carde hie	Daucu cor	!	Geder hel	!	Phala eru	Rhamn cot	Silen flc	Urtic dio
Angel xyl	!	Carde pra	Daucu cor cor	!	Geder 'Mi	!	Phleu bar	Rhina min	Silen lat	Urtic ure
Anixa dia	!	Carde cri	Dexch oca	!	Helle oca	!	Lycop eur	Ribes nig	Silen noc	Valer loc
Anixa ste	!	Carde nut	Dexcu sep	!	Helmi ech	!	Lysin num	Ribes rub	Silen vul	Verba nig
Anthr cot	!	Carax acuf	Dight pur	!	Hecce sph	!	Lysin vul	Ribes xon	Silen x ham	Verba tha
Anthr odo	!	Carax fla	Diplo mur	!	Hippu vul	!	Lyrth xol	Ribes uvo	Sinap alb	Verba off
Anthr cau	!	Carax hie	Dipsa ful	!	Holcu lan	!	Picri hie	Robin pae	Sinap arv	Veron agg
Anthr xyl	!	Carax otr	Dryop dil	!	Horde dia	!	Pilox eur	Rorip pol	Sison amo	Veron ana
Anthy vul	!	Carax pen	Dryop fil	!	Horde mur	!	Pilox off	Rorip xyl	Sisym off	Veron arv
Antir maj	!	Carax ran	Echin cru	!	Horde sec	!	Pimpi sax	Rosa arv	Smyrn oliu	Veron bec
Aphan arv	!	Carax rip	Echlu vul	!	Hobbo pal	!	Pilox xyl agg	Rosa can	Solan dil	Veron cot
Aphan arv agg	!	Carax xpi	Eleoc pol	!	Humol lup	!	Pilox xyl	Rosa can agg	Solan nig	Veron cha
Apium nod	!	Carax xyl	Elode can	!	Hyaci non	!	Malva xyl	Rosa rub	Solan tub	Veron fil
Aquil vul	!	Carpi bet	Elode nut	!	Hyaci x mas	!	Matri cha	Rosa x dum	Solid can	Veron hed
Arabi tha	!	Carx xat	Elymu can	!	Hyper and	!	Matri dia	Rubus am	Sonch arv	Veron hed hed
Arcti lep	!	Catap rig	Elytr rep	!	Hyper hir	!	Medic ara	Rubus oca	Sonch asp	Veron hed luc
Arcti min	!	Centa oya	Epilo cil	!	Hyper per	!	Medic lup	Rubus fru agg	Sonch oie	Veron per
Arcti min min	!	Centa ery	Epilo hir	!	Hyper tet	!	Medic xat	Stata x his	Sonbu int agg	Veron pol
Arcti min pub	!	Centa nig	Epilo man	!	Hyper x dex	!	Nell alt	Poa ang	Rubus ulm	Veron ser
Arvens lep	!	Centa xca	Epilo par	!	Hyppoc rod	!	Nell off	Poa ann	Rubus oca	Vibur lan
Arvens xer	!	Centr rub	Epilo tet	!	Ilax agu	!	Nell off	Poa hum	Rumex acal	Vibur opu
Arvens xer agg	!	Cerax con	Equis arv	!	Inula con	!	Nenth agu	Poa pra	Rumex con	Vicia cro
Armor xla	!	Cerax glo	Equis pal	!	Iris oca	!	Nenth arv	Poa pra agg	Rumex cri	Vicia fab
Arche ela	!	Cerax sem	Krant hys	!	Iris pae	!	Nerru ann	Poa tri	Rumex cri cri	Vicia hir
Artem vul	!	Cerax tom	Krige acc	!	Jugla seg	!	Nerru per	Polyg oca	Rumex hyd	Vicia xat
Arua ita	!	Cerast dem	Krodi cic	!	Juncu art	!	Nobis tri	Polyg svi	Rumex obt	Vicia xat nig
Arua mac	!	Chasen min	Krodi cic agg	!	Juncu buf	!	Nuxca am	Polyg svi agg	Rumex pal	Vicia xat agg
Asper off	!	Chasr tem	Kroph var	!	Juncu buf agg	!	Nyssa agu	Pogul alb	Rumex pul	Vicia xep
Asple xca	!	Chama low	Kroph var agg	!	Juncu off	!	Nyssa arv	Pogul nig	Rumex xon	Vicia tet
Atrop lit	!	Chama ang	Kryai che	!	Juncu inf	!	Nyssa acc	Pogul nig bet	Rumex x pra	Vicia maj
Atrop pot	!	Chara vul	Kyony eur	!	Juncu sub	!	Nyssa xyl	Pogul tce	Ruzou acu	Vicia arv
Atrop pro	!	Cheli maj	Kypat can	!	Kickx ela	!	Nyria api	Pogul x can	Sagin ape	Vicia hir
Arvens fat	!	Cheno alb	Kupho xai	!	Kickx xpu	!	Nyria var	Pogul x cana	Sagin fil	Vicia odo
Arvens xot	!	Cheno fic	Kupho hal	!	Kneut arv	!	Narci agg agg	Potam cri	Sagin pro	Vicia odo dura
Arvens pub	!	Cheno hyb	Kupho lat	!	Labrus ana	!	Narci pae	Potam luc	Segit seg	Vicia odo odo
Asoll nig	!	Cheno pol	Kupho pep	!	Lactu xer	!	Nactu mic	Potam nat	Salix alp	Vicia rei
Bello nig	!	Cheno rub	Fagus xyl	!	Lactu vic	!	Nactu off	Potam pec	Salix col	Vicia riv
Bacha vul	!	Cacho int	Fallo hal	!	Lania gal agg	!	Nactu off agg	Potam pec	Salix cin	Tanac por
Bellu per	!	Circa lut	Fallo can	!	Lania alb	!	Nepet cat	Potam pus	Salix cin cin	Tanac ulb
Berul ara	!	Cirai sca	Fallo jop	!	Lania amp	!	Nigel dom	Potam ans	Salix cin ole	Tanac agg agg
Beta vul	!	Cirai arv	Factu svi agg	!	Lania hyb	!	Nupha lut	Potam rep	Salix pur	Tanac bac
Betul pen	!	Cirai pal	Factu rub	!	Lania mac	!	Nymph alb	Potam ste	Salix tri	Thali fla
Betul pub	!	Cirai vul	Factu rub agg	!	Lania pur	!	Nymph pal	Potam san	Salix vim	Thiaz arv

I also produce tailored cards for sites I visit regularly

v.cc.29 & 31 (Cambridgeshire) record card for: Haslingfield Pit CWS

Grid reference TL4051

Acer cam	--	Brach syl	#	Cirsi eri	24	Eupho exi		Juncu buf	agg	Myoso arv	-	Popul nig		Salix cin cin		Taxus bac	#
Acer pla	--	Brass nap	#	Cirsi pal		Eupho hel	!	Juncu eff		Myoso sco		Popul tre		Salix cin ole		Thali fla	
Acer pse	-	Brass nap ole		Cirsi vul	#	Eupho lat		Juncu inf	--	Myoso syl		Popul x can		Salix pur		Thlas arv	
Achil mil	#	Brass nig		Clema vit	--	Eupho pep	!	Juncu sub		Myrio spi		Popul x cane		Salix vim		Tilia cor	--
Aegop pod	--	Briza med		Climo vul		Euphr agg	agg--	Kickx ela		Myrio ver		Potam cri		Salix x fra		Tilia pla	20
Aescu car		Bromo ere	a#	Cocci sep	#	Euphr nem	23	Kickx spu		Narci agg	agg #	Potam luc		Salix x fra agg		Tilia x eur	
Aescu hip	!	Bromo ram		Cochl dan		Euphr off	--	Knaut arv	23	Narci pse	-	Potam nat		Salix x rei		Toril jap	#
Aethu cyn		Bromu com	-	Colol min	LW	Euphr x nem	#	Labur ana		Nastu mic		Potam pec		Salix x sep		Toril nod	
Agrim eup	#	Bromu hor	!	Coniu mac	#	Fagus syl	--	Lactu ser	#	Nastu off		Potam per		Sambu nig	#	Trago pra	#
Agros cap		Bromu hor hor		Convo arv	#	Fallo bal		Lactu vir		Nastu off	agg !	Potam pus		Samol val		Trago pra min	#
Agros gig		Bromu rac		Conyz can		Fallo con	--	Lamia gal	arg	Neott ova	23	Poten ans	--	Scabi col	--	Trago x mir	#
Agros sto	#	Bromu rac	agg #	Conyz sam	#	Fallo jap		Lamiu alb	#	Nupha lut		Poten rep	#	Sched aru	#	Trifo cam	#
Ajuga rep		Bryon dio	#	Cornu san	--	Festu ovi	--	Lamiu amp		Nymph alb		Poter san		Sched gra		Trifo dub	#
Alcea ros		Buddl dav	#	Cornu san aus		Festu ovi	agg#	Lamiu hyb		Nymph pel		Poter san san		Sched pig		Trifo fra	#
Alism lan		Butom umb		Cornu san san	#	Festu rub	--	Lamiu pur	!	Odont ver	#	Primu ver	#	Sched pra		Trifo hyb	--
Alism pla		Buxus sem		Coryl ave	!	Festu rub	agg #	Lapsa com	\$	Onot gla		Primu vul		Schoe tab		Trifo pra	#
Allia pet	#	Calam epi		Coton fra	#	Ficar ver		Larix dec		Onobr vic		Prune vul	#	Scorz aut	#	Trifo rep	#
Alliu vin		Calen off		Coton hor	#	Ficar ver	fer	Lathi pra	--	Ononi rep	--	Scrop arv	--	Scrop aur		Tripl ino	\$
Alnus cor		Calli agg	agg	Coton hor	agg--	Ficar ver	ver \$	Leioc tur	-L	Onopo aca		Prunu ceri	#	Scrop nod		Trise fla	#
Alnus glu		Calli obt		Coton reh	#	Filag vul		Lemna gib		Optry api	#	Prunu dom	#	Sedum aru		Triti aes	\$
Alnus inc		Calli sp.		Coton sim	\$	Filip ulm		Lemna min	!	Orchi ant	24	Prunu laui		Sedum alb		Tussi far	#
Alope gen		Calli sta	agg	Coton sp.	--	Foeni vul		Lemna minta		Origa vul		Prunu spi	#	Sedum rup		Typha ang	
Alope myo	#	Calth pal		Coton x sue	--	Fraga ves	81	Lemna tri		Ornit umb	cam	Pseud lut		Senec eru	#	Typha lat	!
Alope pra	!	Calys sep		Coton x wat	-	Fraxi exc	#	Leont his	\$	Oroba ela	23	Pucci dis	!	Senec jac	#	Ulmus agg	agg--
Amara bou		Calys sep sep	!	Crass hel		Frull dil	LW	Leont sax		Oxali cor		Pulic dys		Senec squ		Ulmus gla	
Anaca pyr		Calys sil	#	Crata lae		Fumar off	#	Lepid cor	!	Oxali cor atr		Querc cer		Senec vic		Ulmus min	#
Anaga arv	#	Capse bur	#	Crata mon	#	Galan niv		Lepid did		Papav dub		Querc ile	-	Senec vul	#	Ulmus pro	#
Angel syl		Carda file		Crata x med		Galiu alb	#	Lepid dra		Papav hyb		Querc rob	#	Shera arv		Ulmus x veg	#
Anisa dia		Carda hir	!	Crepi bie	a#	Galiu apa	#	Lepid rud		Papav lec		Radul com	LW	Silen dio		Urtic dio	#
Anisa ste	#	Carda pra		Crepi cap	#	Galiu mol ere	-	Leuca vul	#	Papav rho	#	Ranun acr	#	Silen lat	#	Urtic ure	!
Antho odo		Cardu cri	#	Crepi ves	\$	Galiu mol	mol--	Ligus ova		Papav som	!	Ranun agu	agg	Silen lat alb		Valer loc	
Anthr syl	#	Cardu cri	mul--	Cryph het	\$	Galiu pal		Ligus vul	#	Parie jud		Ranun bul	#	Silen noc		Verba tha	#
Anthy vul		Cardu nut		Cymba mur		Galiu ver		Linar pur		Pasti sat	#	Ranun repe	#	Silen vul	#	Verbe off	
Antir maj		Carex acuf		Cynos cri		Geran dis	#	Linar vul		Pasti sat	agg -	Ranun sce		Silen vul vul--		Veron agr	
Aphan arv		Carex fla	#	Dacty fuc	a#	Geran mol	!	Linum cat	a#	Pelli end	LW	Ranun tri		Silen x ham	#	Veron ana	
Aphan arv	agg	Carex hir	--	Dacty glo	#	Geran pra	--	Linum usi		Penta sem	-	Rapha rap		Sinap alb	a#	Veron arv	--
Aquim nod		Carex otr	!	Daphn lau		Geran pus		Litho off	23	Persi amp	#	Resed lut	#	Sinap arv	#	Veron bec	
Aquil vth		Carex pen		Daucu car	-	Geran pyr		Loliu per	#	Persi lap	!	Resed luto	-	Sison am	#	Veron cat	
Arabi tha		Carex rip	!	Daucu car	car #	Geran rob	#	Lonic nit		Persi mac	!	Rhamn cat	#	Sisym off	#	Veron cha	#
Arcti lap	\$	Carex spi		Desch ces		Geran rot		Lonic per	a-	Phala aru	!	Rhina min		Smyrn olu		Veron fil	
Arcti min	--	Carex syl		Geum urb	-	Geran sop		Lotus cor	#	Phleu ber	#	Rhus typ	--	Solan dib	#	Veron hed	
Arcti min min	#	Carli vul	22	Digit pur		Lunar ann		Luzul cam		Phleu pra	-	Ribes rub	a#	Solan nig	--	Veron hed hed	
Arena lep		Carpil bet		Dipsa ful	#	Glyce flu		Luzul cam		Phrag pra	agg	Ribes san		Solan tub		Veron hed luc	
Arena ser		Caryo Car	--	Dipsa ful	agg -	Glyce max		Lyciu bar		Phrag uva	!	Ribes uva	a-	Solid can		Veron per	#
Arena ser	agg	Catap rig	a#	Hader hel		Lycop eur	#	Lycop eur		Picea abi		Robin pse		Sonch arv	\$	Veron pol	--
Armor rus	--	Catap rig riga#		Dryop fil	\$	Hader hel	agg	Lysim num		Picri hie	a#	Rosa arv		Sonch asp	#	Veron ser	
Arrhe ela	#	Centa ery	a#	Echin cru		Helle foe		Lych sal		Pilos aur		Rosa can		Sonch ole	\$	Vibur lan	\$
Artem vul	-	Centa nig	#	Echiu vul		Helmi ech	#	Mahon aqu		Pilos fla	\$	Rosa can	agg #	Sorbu ari	agg	Vibur opu	
Arum ita		Centa sca	#	Eleoc pal		Herac sph	#	Malus pum	!	Pilos fla fla	#	Rosa rub		Sorbu auc	--	Vicia cra	\$
Arum mac	#	Centr rub		Eloce can		Hippo com	--	Malus syl		Pilos off		Rosa sp.	--	Sorbu int		Vicia fab	
Aspar off		Ceras fon	#	Elode nut		Hippu vul		Malus syl	agg	Pimpi sax	#	Rosa x dum	#	Sorbu int	agg	Vicia hir	--
Aspar off	agg	Ceras fon vul		Elymu can		Holcu lan	#	Malva mos		Pinus nig		Rubus arm	#	Sparg eme		Vicia sat	#
Asple sco		Ceras glo	!	Elytr rep	#	Horde dis		Malva neg		Pinus syl		Rubus cae	#	Sparg ere		Vicia sat nig--	
Atrip lit		Ceras tom		Elytr rep	agg -	Horde mur	#	Malva syl	#	Plant cor		Rubus fru	agg--	Sparg mar		Vicia sat sat--	
Atrip pat	!	Cerat dem		Epilo cil		Horde sec		Matri cha		Plant lan	#	Rubus ulm	#	Spiro pol		Vicia sat seg #	
Atrip pro	!	Chaeu min		Epilo hir	#	Humul lup		Matri dis	--	Plant maj	#	Rumex ace		Stach pal		Vicia tet	--
Avena fat	#	Chaer tem	#	Epilo mon		Hyaci non		Medic ara		Plant maj maj		Rumex acel		Stach syl	\$	Vinca maj	
Avena sat		Chama law		Epilo par	\$	Hyaci x mas		Medic lup	#	Plant med		Rumex con		Stell hol		Viola arv	-
Avenu pub	a#	Chame ang	#	Epilo tet	--	Hyper and		Medic sat	sat--	Poa ang	#	Rumex cri	\$	Stell med	-	Viola hir	a#
Azoll fil		Cheli maj	--	Equis pal		Hyper hir	--	Meilil alt	--	Poa ann	--	Rumex cri cri		Stell pali		Viola odo	#
Ballo nig	#	Cheno alb	!	Equis pal		Hyper per	#	Meilil off		Poa com	--	Rumex hyd		Symph alb		Viola odo odo #	
Ballo nig mer		Cheno alb	agg	Erant hye		Hyper tet		Meilis off		Poa hum	#	Rumex obt	\$	Symph off		Viola rei	
Barba vul	-	Cheno fic		Erige acr	#	Hyroc rad	-	Menth aqu		Poa pra	-	Rumex san	#	Symph ori		Viola riv	
Belli per	#	Cheno hyb		Erodi cic		Ilex aqu		Menth arv		Poa pra	agg	Sagin ape		Symph x upl		Viola x sca	--
Berul ere		Cheno pol		Erodi cic	agg	Inula con		Mercu ann		Poa tri	#	Sagin fil		Syrin vul		Viscu alb	
Beta vul		Cheno rub		Eroph ver		Iris foe		Mercu per		Polyg are		Sagin pro		Tamus com	#	Vulpi bro	
Betul pen	--	Cicho int		Eroph ver	agg	Iris pse		Metzgy fur	LW	Polyg avi	#	Sagit sag		Tanac par	--	Vulpi myu	
Betul pub		Circa lut		Erysi che		Jugla reg	\$	Metzgy vio	LW	Polyg avi	agg #	Salix alb	--	Tanac vul	--	X Cup ley	
Black per		Cirsa uta		Juncu eur		Juncu art		Musca arm		Polyg vul	23	Salix cap	--	Tarax agg	agg #	Zanni pal	
Borag off		Cirsi arv	#	Eupat can		Juncu buf		Myoso aqu		Popul alb		Salix cin		Tarax mic	--		

Submitting records

- Records might as well not have been made if they aren't sent to the appropriate person. For botanical records this will usually be the VCR, but it could be a LERC.
- Some LERCs have very good verification systems that allow cross checking of grid reference and site name and work with VCRs.
- Send records in soon after they are made – this allows the VCR to give feedback and perhaps ask for evidence in some cases.
- Records are used for many purposes, by the BSBI for science, by LERCs for planning consents and by site managers.
- The BSBI Recording app puts records directly in a holding area on the DDb. This potentially allows speedy verification.
- In future there should be a regular transfer from iRecord to a different holding area on the DDb.
- MapMate has a direct transfer facility. This assumes that the VCR has verified the records. I transfer v.c.29 records every couple of weeks.
- Records may be submitted via a spreadsheet.

Verifying records

- This is an important role for a VCR.
- There are many techniques ranging from a simple scan through records, to computer assisted verification.
- Difficult records may need a voucher or be sent to a referee (or another local expert)
- Looking forward, it would be helpful to have a preliminary verification query available on the DDb holding area – all the app does is say whether a record might be new for the hectad and a hint of when it was last recorded.

In v.c.29 I have Chris Preston (pondweeds), Nick Jardine (Sagina) and Alan Leslie (everything!) as on hand experts.



Verifying records : What I do

- Format spreadsheet records into a form for MapMate import. This is often easier said than done.
 - Recorders sometimes use a mix of Stace II, III and IV names and sometimes use their own spelling of them.
 - They may not use consistent site names
 - Many spreadsheets don't include the vc number
 - Some reformatting and name correcting can be done by computer programs
- List species from the RPR (in my case the RPCC) and those which are uncommon in the county using another computer program.
- Focus on those.



RP: <i>Hottonia palustris</i>	Wicken Fen: Monk's Lode at Poor's Fen	TL56257013	29	Stuart Warrington	
RP: <i>Lathyrus nissolia</i>	Wicken Fen: Tubney Fen: The New Mere	TL554665	29	Stuart Warrington	
RP: <i>Lathyrus nissolia</i>	"Wicken Fen: Tubney Fen: The New Mere, east"	TL555664	29	Stuart Warrington	
UC: <i>T. x europaea</i>	-1 "Wicken Fen: Reach 24, south"	TL569663	29	Stuart Warrington	
UC: <i>T. x europaea</i>	-1 "Wicken Fen: Reach 24, centre"	TL569665	29	Stuart Warrington	
RP: <i>Carex nigra</i>	Wicken Fen: Sedge Fen: Compartment 11: Spinney Bank north	TL558709	29	Stuart Warrington	
UC: <i>Dactylorhiza x grandis</i>	8 Wicken Fen: Sedge Fen: Compartment 11: Spinney Bank north	TL558709	29		
RP: <i>Juncus acutiflorus</i>	Wicken Fen: Sedge Fen: Compartment 11: Spinney Bank north	TL558709	29	Stuart	
RP: <i>Salix pentandra</i>	Wicken Fen: Sedge Fen: Compartment 11: Spinney Bank north	TL558709	29	Stuart	
RP: <i>Hippophae rhamnoides</i>	"Wicken Fen: White Fen, North End"	TL538652	29	John Hughes	
RP: <i>Galium uliginosum</i>	"Wicken Fen: Drainer's Dyke, north"	TL5520570793	29	Hannah Porcher	26/07/
RP: <i>Hottonia palustris</i>	"Wicken Fen: Drainer's Dyke, north"	TL5520570793	29	Hannah Porcher	26/07/
RP: <i>Myriophyllum verticillatum</i>	"Wicken Fen: Drainer's Dyke, north"	TL5520570793	29	Hannah Porcher	
RP: <i>Thalictrum flavum</i>	"Wicken Fen: Drainer's Dyke, north"	TL5520570793	29	Hannah Porcher	26/07/
RP: <i>Berula erecta</i>	"Wicken Fen: Wicken Lode, at Christy's Drove"	TL5577170159	29	Hannah Porcher	
RP: <i>Galium uliginosum</i>	"Wicken Fen: Wicken Lode, at Christy's Drove"	TL5577170159	29	Hannah Porcher	
RP: <i>Nymphaea alba</i>	"Wicken Fen: Wicken Lode, at Christy's Drove"	TL5577170159	29	Hannah Porcher	
UC: <i>Plantago major</i> subsp. <i>major</i>	10 "Wicken Fen: Wicken Lode, at Christy's Drove"	TL5577170159	29	Hannah	
RP: <i>Sagittaria sagittifolia</i>	"Wicken Fen: Wicken Lode, at Christy's Drove"	TL5577170159	29	Hannah Porcher	
RP: <i>Thalictrum flavum</i>	"Wicken Fen: Wicken Lode, at Christy's Drove"	TL5577170159	29	Hannah Porcher	
RP: <i>Berula erecta</i>	"Wicken Fen: Spinney Bank Ditch, north"	TL5581570939	29	Hannah Porcher	
RP: <i>Carex nigra</i>	"Wicken Fen: Spinney Bank Ditch, north"	TL5581570939	29	Hannah Porcher	26/07/
RP: <i>Alisma lanceolatum</i>	"Wicken Fen: Monks Lode, at Poors Fen"	TL5608570132	29	Hannah Porcher	26/07/
RP: <i>Berula erecta</i>	"Wicken Fen: Monks Lode, at Poors Fen"	TL5608570132	29	Hannah Porcher	26/07/



Hottonia palustris [Plant Atlas 2020]

Recording priorities

Almost as many as there are VCRs! Some options.

- Continue routine monad recording for Atlas 2040
- Target monads with few (<50?) or no records (“Shanklins”)
- Site based recording
- Hunt for LORE species – those not seen in a hectad for over 20 years
- Focus on a taxon and become a referee
- BSBI science projects

Allied to this are more desk based projects

- Compiling a county, regional or site Flora
- Compiling a Register of Plants of Conservation Concern

Any further questions? If not it is nearly dinner time!



*Brian
Eversham
instructing
on Elms*