



BSBI Atlas 2020

An Introduction to the BSBI Distribution Database (DDb)

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The Amazing DDb!

The BSBI's main database:

Retains and makes accessible all available details for records imported from external databases

The Amazing DDb!

Includes powerful on-line tools to:

- Search the database for records
- List or map records
- Check, Correct & Update records
- Download records
- Produce Reports & Summaries
- Enter new records?

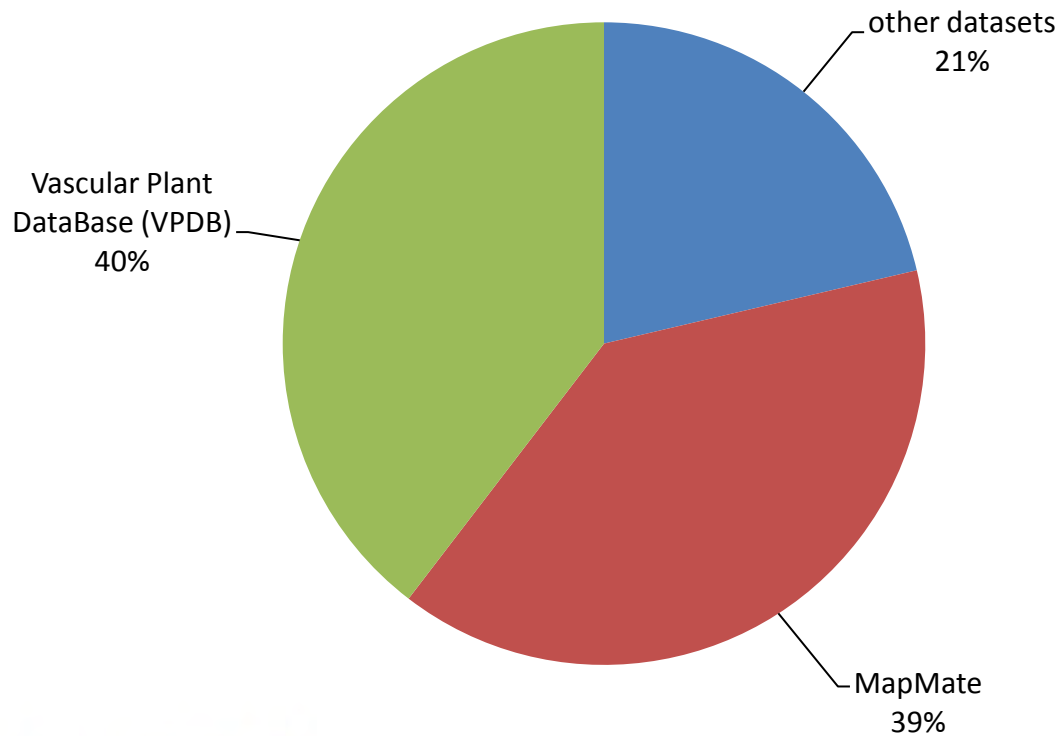
The Amazing DDb!

There are also

- Useful Tools - including a grid reference to VC convertor and a data validation system
- And an interactive Message Board or forum

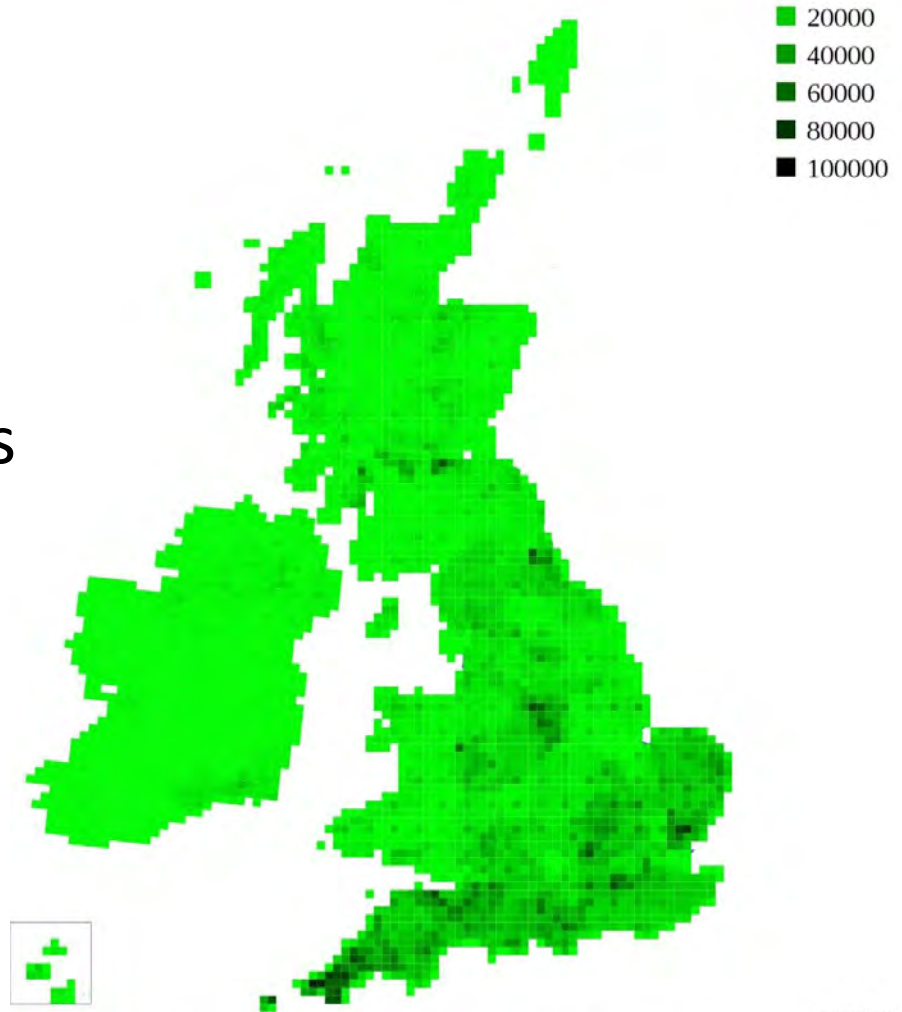
Records in the DDb

Contains c. 29 million records in total



Records in the DDb

- Mapped at hectad resolution.
- The shade of each hectad indicates the total number of records present.
- You can see the regular pattern of monitoring scheme squares.



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vice-counties: VC1-VC113 or VCH1-VCH40 and grouped by hectad

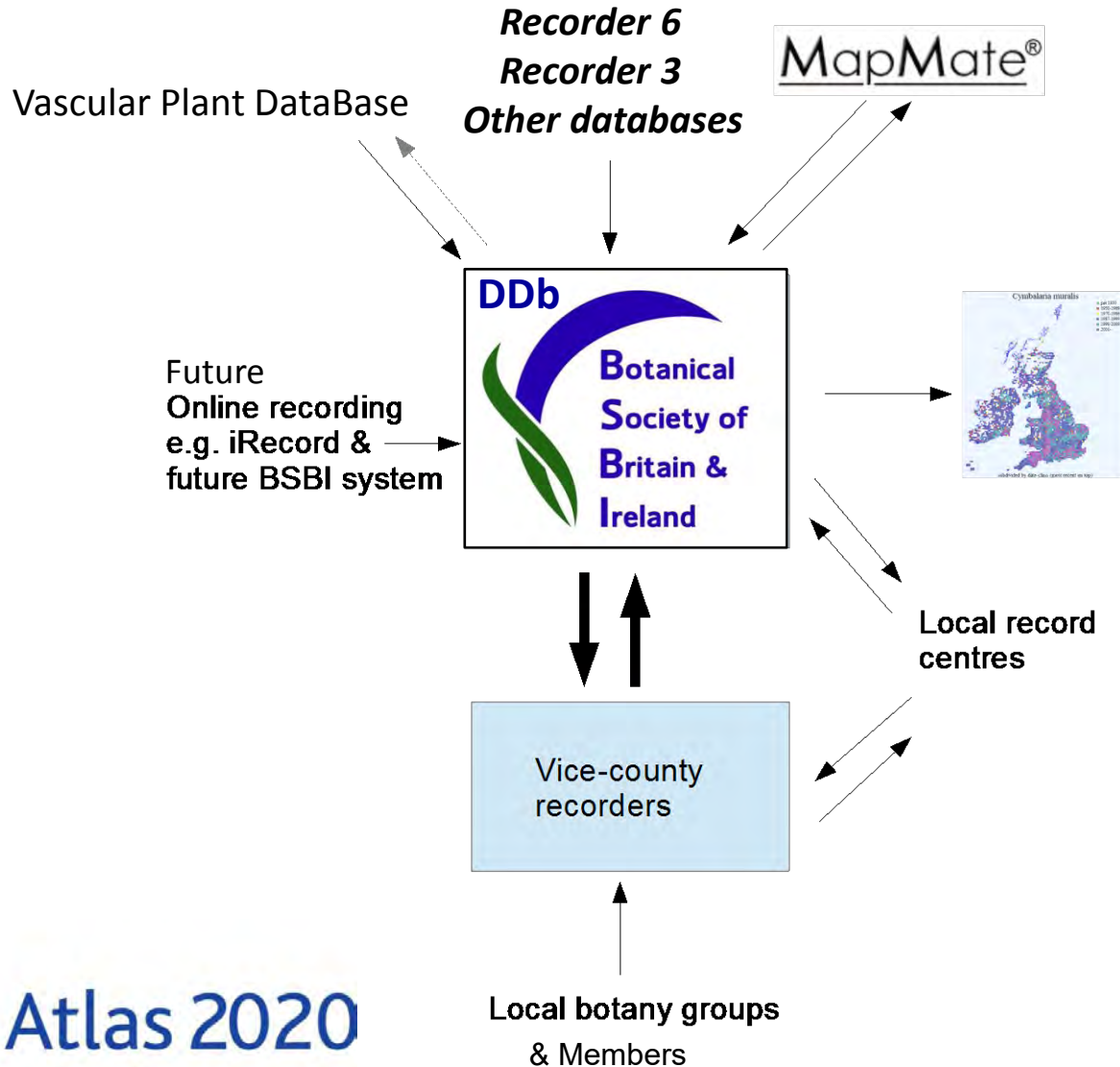
Records for Scotland in DDb*

- 5.2 million records (all data classes)
- 1.9 million are post 2000

Of these:

- 1.55 million are from MapMate and
- 1.50 million records tetrad or better resolution
- 1.0 million records monad or better resolution

BSBI Data Flow Diagram



Use of the Database

- The DDb is primarily intended as a research tool for Recorders, Referees & other specialists
- Because it's research-level, live data it is not suitable for the general public or consultancies
- Access to detailed records is limited to VC Recorders and taxon Referees
- Access for other users and organisations is **only** via data sharing agreements or considered case-by-case

Use of the Database

Summary data & a few other features are publically available without registration or password.

These are:

- Maps – can produce dot maps similar to the Maps Scheme for hectads and tetrads

- Tools – a great grid reference to VC convertor
 - access to taxa designation checklists
 - a powerful validation tool

- Message Board - but with read only access

Search & Listing Records

Enter
taxon
here
& grid
ref here

Click
here
to view
record

Enter
VC here

http://bsbidb.org.uk/search.php#retrievesaved=0.3rq6&query=<simplesearch bran search

File Edit View Favorites Tools Help

Distribution Database > Search plant distribution in the UK and Ireland. [message board](#) | [my details](#) | [logout Jim\(immointosh\)](#)

Tools New maps search search history workspace BSI public data set current

Search form Search templates

search for Records (specimens or observations)

taxon

grid reference grid square

county/region

date recorded

checklist/attributes

bounded area any area type include this area include intersections buffer

more options

Current search-form filter
records where taxon *Cymbalaria muralis* P.Gaertn., B.Mey. & Scherb. "ivy-leaved Toadflax" and grid-reference O13 and vice-county: VCH21

[display results](#) [email results](#) [download results](#) [save query](#) [reset search form](#) [help](#)

results table [download](#) [map](#) [help](#)

7 records matched your query.

<input type="checkbox"/>	<input type="checkbox"/> record	taxon	recorder	<input type="checkbox"/> vc	locality	grid ref	date	<input type="checkbox"/> status
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cymbalaria muralis		VCH21	VCH21 Co. Dublin	O13	-1998	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cymbalaria muralis		VCH21	VCH21 Co. Dublin	O13	1980-1989	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cymbalaria muralis	(Reynolds, S.)	VCH21	VCH21 Co. Dublin	O13	1987-1999	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cymbalaria muralis	Reynolds, S.	VCH21	Ballisbridge-Sandymount R. Duddersity	O13W	1/5/1987	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cymbalaria muralis	Reynolds, S.	VCH21	Dublin E	O13W	4/8/1987	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cymbalaria muralis	Reynolds, S. O'Reilly, H.	VCH21	Dublin E	O1833	25/4/1987	<input checked="" type="checkbox"/>
<input type="checkbox"/>	<input checked="" type="checkbox"/>	Cymbalaria muralis subsp. muralis	Green, Paul Richard	VCH21	Beaumont Hospital, Dublin	O180393	9/5/2007	<input checked="" type="checkbox"/>

[select all](#) [select none](#) selected records action [change record validation state](#)

mark validation state as


[apply change to selected records](#)

☒ hide duplicates


All records of *Cymbalaria muralis* in Hectad O13 in Co. Dublin (VCH21)

View details for a single record

The screenshot shows a web browser window with the address bar displaying bsbidb.org.uk/object.php?objectid=2cd4p9h.6fkhp4&class=RecordInsta. The page title is "BSBI Distribution Database". The navigation bar includes links for "Tools", "Links", "New", "maps", "search", "search history", and a "workspace" dropdown set to "BSBI public data set". The main content area has tabs for "Record", "map", "attributes", "version history", and "admin". The "Record" tab is active, showing the following details:

- taxon: [Cymbalaria muralis subsp. muralis](#) P. Gaertn., B. Mey. & Scherb.
- determiner: [Green, Paul Richard](#)
- date: 9/5/2007
- locality: [Beaumont Hospital, Dublin VCH21 O180393](#) 
- recorder: [Green, Paul Richard](#)
- tag/attribute: [Mapmate:status](#): Established
- Mapmate:method: Field record
- notes: Growing in grounds of Beaumont Hospital.
- references: [Miscellaneous records \(that are not entered on a recording card, no paper copy kept\)](#)
[Green, Paul R.](#)
- source data set: [MapMateCentre:2vp \(2vp\)](#)
- type: field observation
- status: established in wild for at least five years and spreading
- external id: MAPMATE:record:5tuki2vp
- bsbidb object: **2cd4p9h.2b6tag#2cd4p9h.6fkhp4**
- data source: [MapMate](#) (via provider [MapMate](#))
- last modified: Tue, 19 Jul 11 18:11:29 +0000

Please cite this database record as <http://bsbidb.org.uk/object/RecordInstance/2cd4p9h.2b6tag>

 [Edit this record](#)

[Search for similar records](#)

Finding Records

Enter taxon here

Then click here to display results

http://bsbidb.org.uk/search.php#retrievesaved=0.6kxv&query=75bdbbf records where taxon Sorbus...

File Edit View Favorites Tools Help

Streetmap Species Atlas BSBI BSBI Blog BSBI Scotland BSBI DDb BSBI New Maps BSBI Old Maps BSBI MM MM BSBI mail

Distribution Database > search

Tools New maps search search history

Search form Search templates

search for Records (specimens or observations)

taxon Sorbus hibernica

grid reference grid square

county/region VC

date recorded equals

checklist/attributes checklist

bounded area area name any area type include this area include intersections

buffer 0

more options

Current search-form filter

records where taxon *Sorbus hibernica* E.F.Warb. "Irish Whitebeam"

display results email results download results save query reset search form

help...

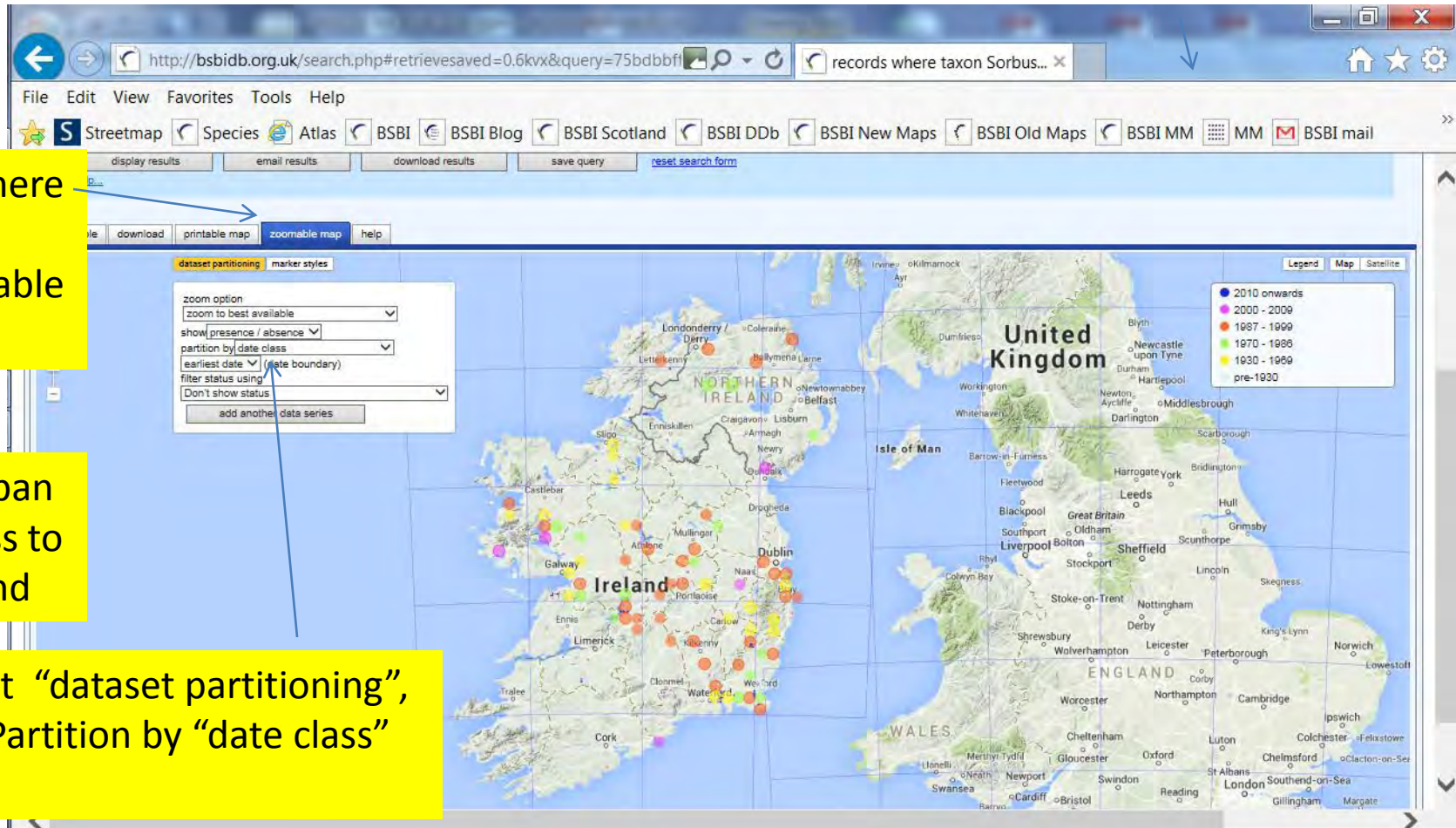
results table download printable map zoomable map help

dataset partitioning marker styles

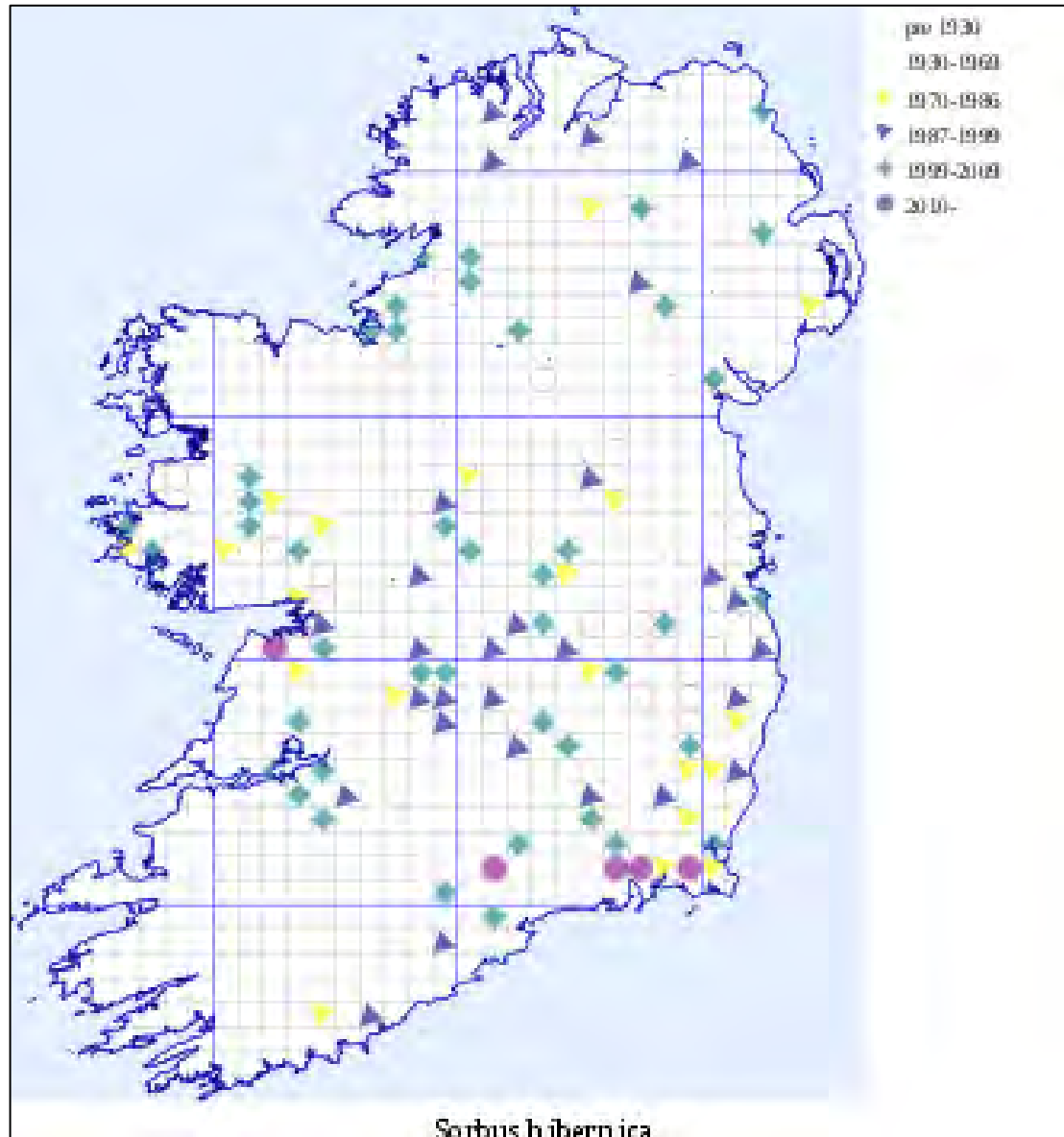
United Kingdom

To find and list all records of *Sorbus hibernica*

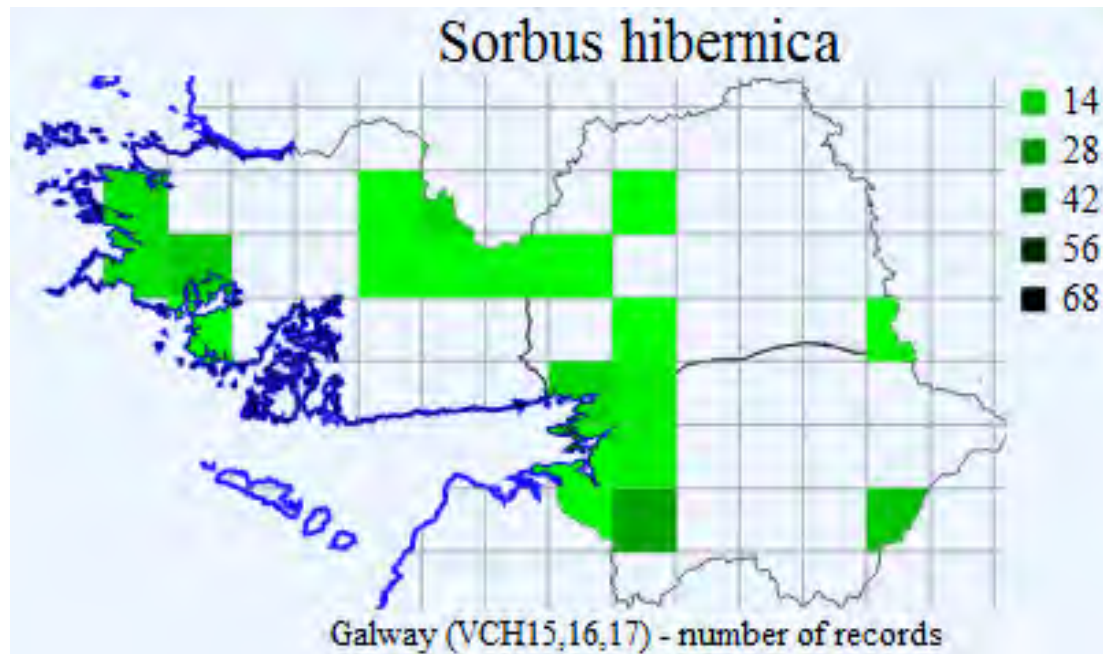
Mapping Records



Mapping Records

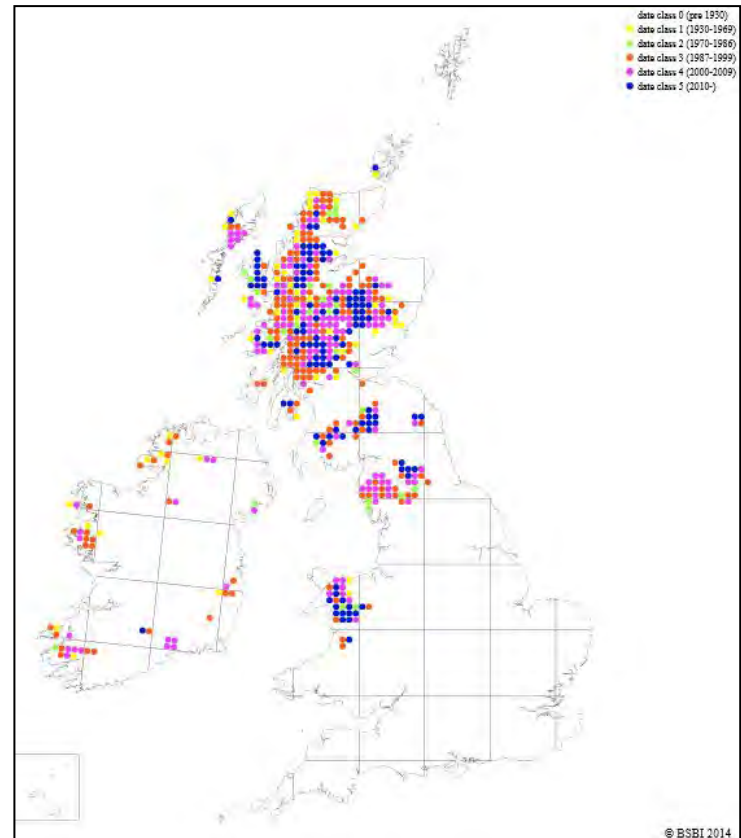


Mapping Records



BSBI Maps Scheme

The Distribution Database
has replaced the Maps
Scheme (bsbimaps.org.uk)



Can use the DDb to check records

For:

- Mismatched counties and grid-references
- Records that are outside known distribution
- Single records of a taxon in a VC or hectad

Can also use it to detect & hide duplicate records

Correcting Records

Registered users can mark bad records & confirm good ones

Yellow: dubious

red (with strike-through): rejected

Blue: not classified (default)

Olive: confirmed

record	taxon	recorder	vc	locality	grid ref	date	status
	Garex acuta		VCH22	VCH22 Meath	N86	1950-1969	
	Garex acuta		VCH22	VCH22 Meath	N86	-1996	
	Garex acuta	Webb, D.A.	VCH22	Navan, River Boyne	N86	3/6/1950	
	Sorbus aucuparia	{ Lockton, A.J. }	VCH22	VCH22 Meath	N67	1950-1969	

select all select none selected records action change record validation state ▼

mark validation state as ▼

apply change to selected records

hide duplicates ☐

Also Grey = duplicate

Updating Records

Registered VC Recorders can edit records

Record of a plant occurrence, based on a field observation, voucher specimen or literature report.

type of record observation

taxon Carex acuta

identified by

identification date date (dd/mm/yyyy)

id comment

date 3/6/1950 single date basis accurate

site name Navan River Boyne vc VCH22

grid reference grid square N86 source unknown

altitude (m)

site notes e.g. exact place name or description; habitat description

people recorder/collector Webb, D.A.

tags label extinct 5 label herbarium TCD

notes label comment note

reference

data set Aquatic Plant Project

record status native

last modified Thu Mar 17 2011 19:32:08 GMT+0000 (GMT Standard T)

Downloading Records

search for Records (specimens or observations) ▼

taxon

grid reference **grid square** ▼

[more options ▼](#)

Current search-form filter
records where taxon [Groenlandia densa \(L.\) Fourr. "Opposite-leaved Pondweed"](#) and grid-reference [O13](#)

[display results](#) [email results](#) [download results](#) [save query](#) [reset search form](#)

[help...](#)

[results table](#) **[download](#)** [map](#) [help](#)

Tabular data
Tabular data suitable for import into spreadsheets etc

optional additional columns to include:

- ☐ GIS bounded areas
- ☐ estimated mean altitude of grid square
- ☐ calculated vice-county based on grid-ref (where different)
- ☐ status (of taxon-hectad combination) from the BSBI 2000 Atlas

csv format [download](#) [email](#)
Excel spreadsheet [download](#) [email](#)
OpenDocument spreadsheet [download](#) [email](#)

For large result sets (> 30000 records) the email options are strongly recommended; CSV format reports are usually generated more quickly than Excel files.

Mapmate
To load records into MapMate please follow [this link](#) [opens in a new window]

Dmap
[Export as DMap .dis file](#) (for mapping using DMap)

To link to this search please copy [this link](#).

Registered users can download data into Excel or (more quickly) into a .csv file.

Adding New Records

Preferred method is by MapMate

- MapMate records go from the hub on to the DDb automatically (every two weeks)
- Subsequent corrections made in MapMate and synched to the hub will update DDb

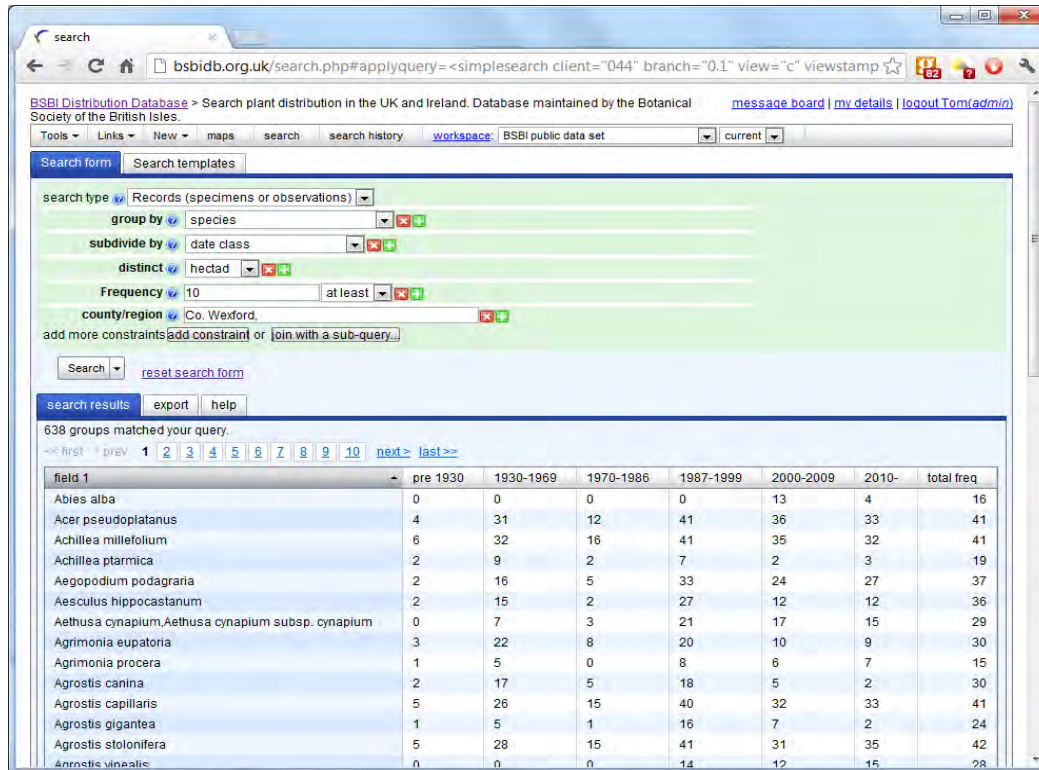
Alternatively:

- Can send records in Recorder, spreadsheet or database format (preferably already validated)

Future proposal: Online entry, either to a linked website or to the DDb

Reporting

Can view a large variety of summarised or grouped data queries.



The screenshot shows the BSBI Distribution Database search results for Co. Wexford. The search criteria are: search type: Records (specimens or observations), group by: species, subdivide by: date class, distinct: hectad, Frequency: 10 at least, and county/region: Co. Wexford. The results show 638 groups matched the query. The table below displays the number of records by species for each dateclass in Co. Wexford.

field 1	pre 1930	1930-1969	1970-1986	1987-1999	2000-2009	2010-	total freq
<i>Abies alba</i>	0	0	0	0	13	4	16
<i>Acer pseudoplatanus</i>	4	31	12	41	36	33	41
<i>Achillea millefolium</i>	6	32	16	41	35	32	41
<i>Achillea ptarmica</i>	2	9	2	7	2	3	19
<i>Aegopodium podagraria</i>	2	16	5	33	24	27	37
<i>Aesculus hippocastanum</i>	2	15	2	27	12	12	36
<i>Aethusa cynapium</i> , <i>Aethusa cynapium</i> subsp. <i>cynapium</i>	0	7	3	21	17	15	29
<i>Agrimonia eupatoria</i>	3	22	8	20	10	9	30
<i>Agrimonia procera</i>	1	5	0	8	6	7	15
<i>Agrostis canina</i>	2	17	5	18	5	2	30
<i>Agrostis capillaris</i>	5	26	15	40	32	33	41
<i>Agrostis gigantea</i>	1	5	1	16	7	2	24
<i>Agrostis stolonifera</i>	5	28	15	41	31	35	42
<i>Anemone vinealis</i>	0	0	0	14	12	15	28

Number of records by species for each dateclass in Co. Wexford

Getting Started

1. Type “BSBI DDb” into a search engine to find the BSBI DDb site <http://bsbidb.org.uk>
2. Register by clicking [register](#) link in top right corner
3. Your application will be approved within 2 or 3 days by email.
5. Meantime you can use and explore Tools, Maps and the Message Board - no login required
6. Try reproducing some of the above examples

Getting Started

Once registered, try a few simple searches:

1. Search for all records of *Geum rivale* in your VC (enter VC name in the [County/Region](#) box, then return). Then click the [display results](#) button.
2. Or for all records of *Carex maritima* in Scotland. As above but enter Scotland as the VC name.
3. Then map *C. maritima* records by clicking on the [Map](#) tab.
4. Amend search, by adding “2000” in the [Date Recorded](#) box & select “From” in the adjacent box. Then [display results](#).
5. Click the [Map](#) tab to map post-2000 *C. maritima* records.



The amazing DDb – try it out!
For help - use the Message Board

Jim McIntosh, BSBI Scottish Officer
Tom Humphrey, BSBI Database Officer